

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predict ed end nucle otide location correspond ing to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
7283	21184	A	7343	306	164	I YM LYFIYITL IYIHTH THTHLYDKYI YL*CVHCFL**AYMICHQR
7284	21185	A	7344	442	8	SQMSKLKTWFR AVAHAWN P STLGGQGRR IT*VREFETSLGN TARP NLYWN
7285	21186	A	7345	3	248	HELSLSLLSPFFFFKNEKGSR*VAHAGL KLLTSSDPPT*ASQSARITGISHCARPL LSHFLAYLALPCHQNRLCTGHLPST
7286	21187	A	7346	2	246	HELYQSILLSP LFFFKNDIGSR*IAHAGL QLLT*SDPPT*ASQSARITGISHCARPL LSHCLAYLALTCHQNRLCTGHLPST
7287	21188	A	7347	1	130	GTRLLKRLTQETR LNP GGRGC REPSLHY CTPTWARQS QTV AHN*KRLTQETR LNP GRGC REPSLHY CTPTWARQS QTV AHN
7288	21189	A	7348	516	288	FFETESRFLT QTGVQWCDLGPLQPLPPG FKGFSCLSLLSS*DYRCLPPHPANFCIF SRDGVS P C*LGWSQTPDLK
7289	21190	A	7349	417	148	STSVVVQAGVQWH DHGLLLLPGPP RLK*S SHLSLPHG*D YRHILSCLANF*NIFVEA GFRTAHGLEPLGSSDLPASASQSAGIT GMSHLA
7290	21191	A	7350	143	2	TQKFKTSLS SWD YRRVSAH VANFCIFS KDRVSPY*PGWSRTPD PARA
7291	21192	A	7351	189	37	EAI A VRRII*NLF FFFFFF*RWGLTVLPK LVNSWAQAILSPQPSKV LRLQA
7292	21193	A	7352	131	2	KSRIGTVAHACNP STLGG RHGWIT*SRE FKTSRANMV KPRPRA
7293	21194	A	7353	1	106	GTRGQCLTMLP RPLVL NYWAQM ILPPW P*V LGQV
7294	21195	A	7354	939	653	KGNFIFL RQSFTLVAQAGVQWRDLGSPQ PPPPGSK*FSCLSLRSSW DYRHGP PHPA NFALVEMGFLHV GQAGLELPT*GDPPT SASQSAGITGR
7295	21196	A	7355	270	26	EARFLGLLR DIAQLCYPGWSAAV*S*LT AASTSWA QVKASTHLSLPNN*D*ARATM PG*LKKYVFF*ROGLAILP RLRLVF
7296	21197	A	7356	329	206	HHLANF*TFCR DRGLTMLARLN SWPQAI LLPQPPPKV LGLQM
7297	21198	A	7357	128	253	MRPDITV AHTCNP STLGGQG GRIT*THEF ETSI LGDMMK P YLK
7298	21199	A	7358	2	108	AREGSGGQGC SEP+W RHCTAAW VTEQDP VS KTIKK
7299	21200	A	7359	1	340	GTRERN WHLA*ALH THTH THTHR HTH THF SF PANS*RD T FVIF*QSLL LEIM TS FSPS IGLKCSFSQ QPSG LLSSIAGERD S RI HGENTVSMCLHNR LKAELRS DVISLR V
7300	21201	A	7360	385	1	SVGPSKPCAGY NLLV CHLLR PLEKRS IR VGVT*FSRCHL SPLS LTRKAN SLTPCTS WM RCRCL L LRLT ILGVPH PMSC THCP TL P SEMNL GPQLEM QKSP IF CVAHAGSP RLE LFLFGH LGC STPN LPSC
7301	21202	A	7361	234	29	LSTEPKGS KALKFN VTLLNIAF*CNSG CNS NL* S*QQY*RV IQSHL SQTLWLTP VIPALWEAEAGG
7302	21203	A	7362	68	339	DRDIANKPAWQLCQSRILYI LAQLOFIDQ GELL PDFR IHYKVI*TCTAWH*RRNRLI DQWN RADIPD LMPCQ AWRLT P VIL VLWE ADVGGS

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7303	21204	A	7363	168	2	CFYSTAHIFKELRQRPGAVAHAYNLST LGRRGGRLT*GQKFETSLANMVKPHSC
7304	21205	A	7364	399	62	QPGQYGKHPVLKNSKIKPFWGDPVVVP NAREG*A*KMVEPGKVRVQSAQIKALEF NLGPKKKVPFKKKNPWLAKGGGLRPEIP AFGKASKGGSPRSRILRPPGFLPYPAHF
7305	21206	A	7365	289	76	VCDVLRESRAQLSRLKCGIII*AHCNVS IAGSSNCHASALRVPGSTGVWVESERGD VDRFEAYGSRGYVCA
7306	21207	A	7366	364	182	QWHDHCNFKLLGSSNPPTLAP*VAGTAG TCHCAWLI*FLTWKIGFKTSLKIIIVLLG YFWF
7307	21208	A	7367	155	2	ELGTKREGWEKSATVAHACNPSSLGGRG RWIT*GPEFPTSMANMMKAHPRA
7308	21209	A	7368	342	184	LSPLSSWDRRYTPPRLANFKFFFKR*S LTMLPLRYRPFYITTHQTLSAMTF
7309	21210	A	7369	2	211	AREPKCL*TDEWINKMQYIDAVEYHLAI KLNEILTHATTWMNLENMLIGRS*TQKA TCCVIPFMDSIYV
7310	21211	A	7370	190	344	YKNVTVKRILTWPSVAHACNPSTLGGQ GGRFG*GQEFEETSLGKIARPCLY
7311	21212	A	7371	24	254	KPQGIGAHASSQHYGRPRREDHLSLGV* DQPQGHGEIPSLOQKKKKGLPGRGGVCL KPWFLKILGEKINVWVLTPKG
7312	21213	A	7372	43	358	DSNLNYSLFFFGEADLGTQVLTHPSTT AMYFVHYCQSP*ILYGTINT*PPVVKHN PIHKTPSPCLQASTAINLQLSHINCNS KATPHPLGYQQTYPPPLTVHST
7313	21214	A	7373	2	288	IHTILAFTSSLGLILVYRSHLIASLLCL HGIIISLTLIAPLIPLNTHSLLAPIGPI AILVIAA*QAAVGLALLVSISTTYGLNY VRNLALLQCCN
7314	21215	A	7374	335	1	VQWNDFGSLQNPPPGVSPFWLSPNNL GFKGPPPRPGPFLKF**KPGFSALTRMV SLSRPRDSAPLAPPKAGVSRLNPRARAP FFFFFVFCFHFLLSGEKKSLAHKGGI
7315	21216	A	7375	399	91	RIFFFPPSLKAPPHQKPTPFPPPTKKPL VFSIPPIFPPLKKNPFPSPWEVFLFLS FFQKDAFFGPQV*KGNFFFKGPPPLTQ NSPQGVPPKKKKKKKKKKNN
7316	21217	A	7376	377	131	YLYIKFYNFIIILFYIFIFENIF*FNMIF NLLFYIFYYILINFNILLIILIIINFFYFI LLILNIIILILYIIIIYFIKNIIKT
7317	21218	A	7377	2	156	FHHVV*AGLELLGSSNPPTWAFQSAETT GVSHHAQLPHFILRKQELLSLGL
7318	21219	A	7378	319	59	DTKMNSQDILYSIQSNRT*W*LIKRO*T KQKSAPRNGNEVP*THQHSTATTLISQQ PSTSKQDPAAK*L*FAEGRLLAFPSNN VF
7319	21220	A	7379	308	12	FSPTISNFNYKSNPSPLIYLFO*PITQL IPTNISTNTPLNL*FYLRLIYSTSISLL PISNNVKIK*QFEHTKPTPFLPTLIALT TLLLPISPPILIL
7320	21221	A	7380	11	169	RRDLAMVPRLFSSSPGLK*SLHLGFPEH WDYSHEPPSWLFFFLFLITEGYFF
7321	21222	A	7381	300	2	KFFFFFFFKGFFSPL*SHQKKTQ1FF GEFFFWGFKKFFLFFFFPPGGGFFFFFFF FFFFFFFFFFFFFFFFFFFFLFFFF

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						FF*INSLFIQNSFLT
7322	21223	A	7382	163	160	PGTSNDEIQRRNSRNRISPPIAER*GLSL LPRLEWMGSNEAHSNLELQGSSNPPASA SKSTMITGVSHCA*PRLEWMGSNEAHSN LELQGSSNPPASASKSTMITGVSHCA
7323	21224	A	7383	1	183	VCVCVCVCVCIKWDSDSYSAIKKNELVA FVVTWKRLLETIILSEVSQE*NTIYHMSS LICGS
7324	21225	A	7384	2	196	KIQMWPGVVAAHACYPNTLGGQDGRTA*G QEQTSLGNIAARPCLYQQQQQQQQPRCS LTYGDK5
7325	21226	A	7385	3	192	RNLSSLQPPPGLK*WSCLSLPSSWDYR RPPPCPANCFLCEFFRTNGVFPSPGV YFEPRN
7326	21227	A	7386	266	198	TMLSGFLRSAGLTMIS*PHDPPASASQS AGITGVSHRARPLVLFLRDSLTSQGTQAG VPWRDLSSLQSRLAEQMRCFCP
7327	21228	A	7387	164	311	SKQQKGLSGVAHPCNPSILGGRGRWIN* GQEFTSMASMVKPCLSLKL
7328	21229	A	7388	3	218	EIMSFAATWMQLEANILSTLSHE*IAKY CMLSLLSGAKHWVLMNIEVGTGDTRDYL GCTYPSSTEQLGYYS
7329	21230	A	7389	521	58	SDCGLTPIAQTGVWHHLSSLQP*LPWL G*FSHLSPSSWDYKVPPCPASFLYYF LVEFGFCHVAQDGLELLDSNNPPSSASQ SAGITGMMSGACGLRRF*KLRSWRYLVLL AMQVNEQGTSQAGEAVSEADAGQGCCCG LCLHRILSQYALP
7330	21231	A	7390	169	322	APGNFKTN*RKNGFWAGNTLGVSVKNMK NGWAWWLTSVIPALWEAEAGGSP
7331	21232	A	7391	1	353	GTSPHYGSFHGHQKDVTGKGSQSRPRER VLGSHARKNSLPVHEVKAYLL*KYLSIL RATHILISPDCGWVPIFIQSYIFLSSC GFFLLFFLLLTLTLSFCSWHLIISFLALF VIPLY
7332	21233	A	7392	372	3	IQAGACCAECIPSKGIRWNPSIVEGLHS DMSWSLCLFLSGAISVLCNFRLSGSSDS PMAS*QAARTAVIRHHTRLIFCIFSRDR ETGFHHVGQENLLMLLQLFSGLGFIS ATLTLMLLV
7333	21234	A	7393	362	176	ARMECSGAI*AGLRGSSDSLASAS*EAG YTGKGCHAQ*TFVFLVEVRFHVGQNAI NIRTSL
7334	21235	A	7394	2	304	ARADCCARNE*GSVGMGPSEPGVGYNLL VFRFLRPLEKHISRVGETRSRCQLSQL CLARTGNSLTPCTSWVRQCLALLRLMLG ALHPLSCTQRPTSHSE
7335	21236	A	7395	256	3	MYAARYWNKAKITTESLRHWAGHGGSH PYNPSTLGG*GGQIS*AHKFETSLGNMV KPHLSKNKQTNKQTNKQTNISWSWCICL
7336	21237	A	7396	346	2	RDHFYRESHSLITYICLENVKSNLKCGE GPLNFTFHLQRKNCNLGHTRSPGGVYHV GRTEATGPIKRRNGLGAVAHTSNPSNL GGQGGWIT*GQEFTSLSLPRWLTPVIP LV
7337	21238	A	7397	2	242	RRYSDYPDAYTT*NILSSVGSFISLTAV ILIIIFMI*EA*KKKKKKKKKKGGPF KKTLGGPKFNRMEGKNFSLKGGR

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7338	21239	A	7398	1	289	TKLGLYYTLLQASNDFKSPFSIFDGIY GSTFFVTTGFHGLHVIIGSTILTI*FIR QLIFHFTSKHHGLEADA*YWHLADARR HSE SITHQCCS L
7339	21240	A	7399	346	40	IIIFTNKIYIKINKRLKLFITKILDLYI I*IFFFRK*FTFKQ*KF*IININKIYYN NIK*IFIYLFFFFFFFLFFFFFFFLKK FFFFFFFFFFFFFFFFFFFFLKK
7340	21241	A	7400	1	334	NSCRRQRLLDLPLPITL*LPQLIGYIE KSTRYECGFHPISPARVPFSIKFFLVAI TFLLFDLQIALLPLP*ALQTTLNLPLIV MSSLLLIIILALNLAYE*LPKG LD*AE
7341	21242	A	7401	2	302	HTINLLGGERYVLATTY**STM TLLLTGL TVLHTGLYSVYLMTTTQWG*LTPHIINM KP*FTR*DTLVFIHLSPILLSLNPDI I TGVLVLLSYELLLT
7342	21243	A	7402	57	338	TTHNIVIGYIEASTAYESGCDFPISPARVP FSIFKFLVAITFLFDLEIALLPLP*A LQTTNLPLIGMSSLLLIIILALSLAYE* LQKG LD*AE
7343	21244	A	7403	407	68	QEELVDPLTTVREQCEQLENCKAR*RL *LCDERVSSRSHSEEDCS EDLFDFLHAR DHCVFLILYINLKYMCELT
7344	21245	A	7404	494	154	SLFIFYLILFDF**FFFHYFFYFLLSI FSFKLFFFLLHFFFHMFFFLLFSPPNK IFFPKIPPRFFLPLF**KFFFFLPLKF LSPLGFFF*SPPFFFFFFFFFFFFF F
7345	21246	A	7405	1	400	NPGRFLSTSNSSLYERTREIRPTSQS AF PRK*YHLKKKKKKKKKKKKKKKKKKKK KKGPLKKKPRGGQK*TGGEKKKKFPKR GGKKKPGKF*KKTFFWGKKMGKTPQK KINPLGKKKIFKGKRGKTPPL
7346	21247	A	7406	2	257	RASLCHPGWSAVV*SWLIAALTSWLQF SHLNSLKWDYRHEPPHLA*LRFEHRHS GSSICTLNR*ILLSFPILSIRYKNGLIL Y
7347	21248	A	7407	259	47	YVFFFFFFFLFFIRLQSVSPFFFFFF FFFFFFFFFFFFFV*SFIEMF SFVV LYLLRQVSISIAYTLFG
7348	21249	A	7408	3	248	VTFL*CDVEIAVLIP*ALPTTNLALI DMSSLLLIIILALRLAYE*LRGG LD*AE EHQA THSAYERAPPL
7349	21250	A	7409	2	350	RSGMPRRYSDYPDAYTT*NILGSVGAF I CLTAGILIIFMI*EAFA SKRKVLIVEQP SINL E*LYGC PPPYHTFEEPVYIKSRHI RKE SNPPKLVSSQPHGLHDFFKKKLGT I TEKN
7350	21251	A	7410	2	232	LDQTYAKIHFTIVFIGVDLTL P QHFLG LSGMPRRYSDYPDAYTT*NILSSVGSFI ALTAAILIIFMI*EAFAKKF
7351	21252	A	7411	2	321	TSLLAVLLIIMTL*LPQLNRYIEKSTPY ECGFDPICPGRVPFSIKFFLVAITFLLF DLETA LLPLP*SLQTTNLPLIAMSSL LIIILDLNLAYE*LQKG LD*AE
7352	21253	A	7412	2	194	SIECFLVPITLLCDLEIALLPLP*AL QTSMPLPLIVMSSLLLIIILALNLAYE* LQKG LD*AD

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7353	21254	A	7413	1	197	LYTTYFVTKTLLLTSFL*GRTAYPRLR YDQLIHL*KNFLPLTLALLI*HVSIPITI SSI PPPQT
7354	21255	A	7414	1	185	STPLP*ALQTTNLPLIVMSLLLIIILA LSLAYE*LQKG LD*AEKKKKGA AVLKDP SGGPS
7355	21256	A	7415	347	228	LE*LYGC PPPYHTFEEPVYIKSRLKRKE SNPKLVLSSQPQHGLHDFFKH KKNYRK NK RKEGLASVKENDRGP
7356	21257	A	7416	1	296	HAYDHASAQLNGYIEQSTPYECGFDPIS RARVPFCIKVFLVAITFLLFDLEI ALLL PLP*ALQTANLPLIGMSSLLLIIILALS LAYE*LHKG LD*AE
7357	21258	A	7417	3	202	TCSI*HVLVRMT*LIYDLEI ALL*PV P* ALQTTNLPLISMSTSLLIIILALSMAYE *LQG LD*AE
7358	21259	A	7418	1	321	SNTLLALVLITITS*LPQLSGCVGE CTP YEGCICRILNARALCCMQIFLKA ITFLL FDLEI ALLLPLP*ALQTTNLPLIDMSSL LLIIILALSLAYE*LQKG LD*AE
7359	21260	A	7419	1	212	RTRGIIFRPLSQSLY*LLAANLVLT*I GGQPVSYPFTIIGQVAYVLYFTTILILI PTICLIEENKILKWA
7360	21261	A	7420	2	257	GRVGGRVGYSIAFFLQA ITVVLVLDESA LLLALP*SLQTTNLSLIVMSSLLLIIIL ALS LAYE*LPLG LD*AEYGEMMTTLDA
7361	21262	A	7421	367	269	HCDLKLLGSSDPPASAS*VAWITGTCHH TKLS
7362	21263	A	7422	2	116	ALQTTNLPLIVMSSLLLIIILALSLAYE *LQKG LD*AE
7363	21264	A	7423	2	336	KPEC GREGILPCCSSSAWPEGSFRPFOM NLGSFLSFFFLLFFFSEKGLFLCPPV*S PYGKSNLLEPSASRFKQFFCLGPLNNWD YRLFPPFPGNFGVFKKNR VFPFWPSLV
7364	21265	A	7424	3	154	LFL*IRTAYPRFRYDQLIHL*ENFLPL TVALLI*HVSIPITISSIPPQT
7365	21266	A	7425	3	154	LFL*IRTAYPRFRYDQLIHL*ENFLPL TLALLI*HVSIPITISSIPPQT
7366	21267	A	7426	1	314	INTLTL LLLIIITL*LPOLNGYIN*STP YECGFDPISPARVPFSIKFFLIA ITFLL FDLEI ALLLPLP*ALQATNLPLIDMPSL LLIIILALSLAYE*LHQGLY
7367	21268	A	7427	1	331	ILIINTL LLLIIITFL*LPOLNGYIEK STPYECGFDPISPARVPFSIKFFLVA ITFLL FDLEI ALLLPLP*ALQTTNLPLIVM TSLLLIIILALR LDYE*LQPG LD*AD
7368	21269	A	7428	2	373	SDRNHHIHALVITIILGLYFTLLQASEY FESAFITISDGIVYGSTFFFVATGFHGLHV VIGSTFLTICFIRQLIFHFTSKHHFGFEAA AA*YWHIVDVAGLFLHVSIYRGGSYNHQ LIIPSVAQESTPA
7369	21270	A	7429	378	63	PSFEPFP*NNFFPPRPLFSPGGFPPP FPPPQKG PPPKIPPGFFFSSPPFWEKFFF PPPPLILPPP RFFFNPPPPFFFF FFFF FFFF FFFF FFFF FWFDFLGSGC
7370	21271	A	7430	1	109	QTTNLPLIVMSSLLLIIILALSLAYE*L QKG LD*AE

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7371	21272	A	7431	358	290	FLLVIPNLFHFLIYIIISIVPNVSFFFH IIYILSIFFPFIIFILLSSFNFILFFF FITSFPFFYFFFFFFFFFFFFFFFFFF FFFFSFFFFFF*FFFN
7372	21273	A	7432	1	95	PTRRPTRPHNSQL*TPGLKQSYPRPLPS SWD*RHMPSPH PANFRKFF*RWHL YCPGW S*TPGLKQSYPRLPSSWD
7373	21274	A	7433	1202	870	HNTFKIRPHCRTHRGKPFWGLLLVTpv FSPSLRPSFLPSFLPSFLPS*LPSFLPS FLLFLSYSFCPLSFLCLRCIPHSAFFWG NPROVQENCIVITIYRLSTALHQL
7374	21275	A	7434	163	1	SVYVKRIGLGRVAYTCNPSTVGGQDG* I T*GQEFE TILA KREPLFLACFLFLI
7375	21276	A	7435	148	362	NDDNSVEFGIRLHKGLGTVAHTYKPSTL GGQGGHIA*AQEFMTSLGHMT*SSLYHK LTEYGWRDTASLLMC
7376	21277	A	7436	61	233	GGDLRHW PSSDSFLSLSFFF*NKNGGG LALLPRLDLNSWSQAILPLKPPNALGLQ A
7377	21278	A	7437	44	242	FVCLFLFFFFFFEKESTFQHD LSSLQPPLP RFKRFSCLSLPSTWDYRLAPQCLANF* I F**KSGFTFG
7378	21279	A	7438	119	300	YCVSLLIFFIFIYIFILLIFKF LFITL NYISFLFFYF*H*FYF*KNFIFVFPFGY FPRP
7379	21280	A	7439	1	221	LKLQHHDPPTTISL VITRNWKQPKCPNVQ QIVH*SAIKRNELLIAKTMNL RGIML SEICQPQKILYLEIPFI
7380	21281	A	7440	35	345	FSFCCVCVCVCSLPKHAIEMLNQTHP YVPKGVAYLPEREPEPFIVPM DPELTA*YE DYRTHESAQEPSEPHQLSRRSLPH*PGH ATRDHSPTTDWGKRRTSH
7381	21282	A	7441	3	384	VIHL*AGAVIIGSRSKSTNALAHFLRQG TPTPVILVLGIETMNLLIQPV ALAERL TDNITAGHLLMHLIVSATLA ILTINLTS TLIMFTVLL LILTILQIAVALMHAYVFAL LVCYLHDDAYDHGG
7382	21283	A	7442	15	277	GLAILPRLVPNSWPKVILQVWPPKMLG* QA
7383	21284	A	7443	21	694	NGGLNAHLASASEFDHSGVQ LIEREEE I CIFYKEKINIQEKMKLNGEIEIHLLEEKI QFLKMKIAEKQRQICVTQKLLPAKRS LD ADLAVLQIQFSQCTDRIK DLEKQFVKPD GENRARFLPGKDLTEKEMIQKLDKLELQ LAKKEEK LLEKDFIYEQVSR LTDR LCSK TSGCKQDTLLFTKKMNGYSRR IKNATEK MMALCA*LSMKQAP TIELQKEVQGERRP
7384	21285	A	7444	141	428	DRSILLEAGDGRIAGDFFFF*TGTNFVAQ AKVQWGIHSSLIHP*PPGLKQSSYLNLLG SYHHWLRPHALFFF LKNRGSLFC PGWFG TGFRGTTFWGAK
7385	21286	A	7445	35	343	GYSII GCPKFLDEK IFDS GHEKER KINS LLF*KKKKKKKKKKKKKKKKKRGGLKK TSGGP KIKRGGGIKNFPIKGGVKKTSGE FFF GKKPFFGGEKFW EILP
7386	21287	A	7446	403	193	EYIKQGAE*NNQPKLH AHRKR LTWKETP RCIHEGIA PAIMNSDCLVFDTSIAQLFA ENGNLGINVTISM C

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7387	21288	A	7447	411	110	LTDSLINIVYR*KMSYIS*TNSA*VYLY IFCIYIYIYIYIYRRIYSIYRC*YIYYG PAHIVLVYSSSYILVYYESHKYGYIMGL NILSYIFIYSYFSACS
7388	21289	A	7448	1	380	PTRPKLKKNCNGVSNGDLCFFGGQFL IWFFFFFFCILIEGGLNSKNYELKSLIK TYGAKKAEIEHTEN*KNRETLLEAAQL AIKVTPNPNAMLRTVEHDYAMYMHNFWLNL KLNCHKVAISCKQ
7389	21290	A	7449	200	437	VQSNNNKFKRRL*PGVVAHTCNPSTL GGQARRIS*AQELETGLNNLMRPCCNYNK FINVLDDVHGVTSPVSQYYKKVC
7390	21291	A	7450	405	3	PPRFFGFFFPPFYPLKFFFFPKGFNFFCG FFPPIFFPPPKKKFFFKNSPGGFFLPPFLG KIFFFLPFFKFGPPRGFF*RAPLFFFFF FFFFFFFFFFFFFFFFFFFFLQRINFT ARPGTPLSRAVPLRGALPPSA
7391	21292	A	7451	2	348	PRVRPRVRYKLQTKRCDLTLP*GHSHV SLRNTTFDALKS*DTDSSLSPKLECHGV NTPNCNLRLPSLSDYPASLSREAWIAST RLRAWEIFVFLAQMRQDYCMNPAGGGCN ELK
7392	21293	A	7452	1	168	LVHDGHAGLKLLTSGDRPA*AYQSAGIT GVRPLGPPTYYYFRtasfMtficefatv
7393	21294	A	7453	184	260	SSRGGSLASRRSR*STLLGLPKCWDYRC MPPSLANFFFNF* I*NFCFW*RRSLGM LPRLVVNS*MQAILPLRIRLQGIHFAGT QTFLS
7394	21295	A	7454	405	64	FFFFFFNFF*KKKI*DVFAKIFFKIFFFF SGKLFIFWGGGFQNAPPQKKFFF*KIKSF FFLNFFF*KNIFFFVAGVVFLLNNFFF RGAFLFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFF
7395	21296	A	7455	368	2	SQSFGPRPRWENRLGPEQHIKISRYRPAQ VHACPSTLGGRGRWIT*GQEFGKGSTHL GLPKYWDYMPEPLLVYIQCFHFRTFCN KAAIHCFKPEQQLLYNKTSYFKESYKVKA ALVACKPTRP
7396	21297	A	7456	2	183	TERDSVSKNKYIYIHTHTHTHTTYICVHG VIYVYI*SLLLIIYNIAYILIIYHVFYILL IFKA
7397	21298	A	7457	281	127	YNFCIFM*RCGFNNVGQSGLKVLRGYS PASASQIAGITGVSQCAQPVAYS
7398	21299	A	7458	2	194	TSVRKYF*YPFTITDRIYGSTWVVATGL HGLHVIIGSTFLTICLIRQLIFHFTSYH HFGSEAAG*YWHFVPEARLFLYVCIY** GSTWVVATGLHGLHVIIGSTFLTICLIR QLIFHFTSYHHFGSEAAG
7399	21300	A	7459	22	319	GGSVTGAYHRLDHDRNQIFLFLALLISMLLGlyF TLLQASKYFECPTICDGIVGSTFFFVAT GFHGLHVIIGSTFLTICWIRQLILHFTS RHHFGLAAAA*YWHFVDVV*LFLYVSIY **GSVTGAYHRLDHDRNQIFLFLALLISM LLGLYFTLLQASKYFECPTICDGIVGSS TFFVATGFHGLHVIIGSTFLTICWIRQL ILHFTSRHHFGLAAAA
7400	21301	A	7460	1	222	TILGLYYTLLQA*EYFKATFTIYDGIV

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						GSTFFAATGFHGLHDIIIGSAFLTICFIRQLIFHTSEHHFGFEAAA*YWHFVDA*LCMYVSIY**GSTFFAATGFHGLHDIIIGSAFLTICFIRQLIFHTSEHHFGFEAAA
7401	21302	A	7461	3	246	LNYSLFFFHGEGANLGGTQVLTHPSTTAMYFVHYCQPP*ILYGTINT*PPVVHKNPBKKKKKKKKKKKKKKKKKKKKKRGGGF
7402	21303	A	7462	2	155	SRSRAALLLPLP*ALQTNLPLIVMSSL
7403	21304	A	7463	1	136	LLIIILALSAYE*LQKGLD*AE
7404	21305	A	7464	166	192	PTRPAPSHLYCKNIKKLFPSGTANEAL
7405	21306	A	7465	416	55	IADIFLRCKKKFKVK**VLIKASEE*N
7406	21307	A	7466	295	84	GCKHLHGMH*NSAVCTVFWLKQIMNSD**KVNTQ*KKGGGENNK*KNIKKLF
7407	21308	A	7467	142	258	PSGTANEALIADIFLRCKKKFKVK
7408	21309	A	7468	3	192	LVGPNVTLQLVSCLFCFLFLH*GFFCCC
7409	21310	A	7469	2	110	CCLFLFLFVCLFVCWFLNLKPSIKCLLP
7410	21311	A	7470	380	8	FSLSLGCACIPSSF
7411	21312	A	7471	1	107	LGFFRLGYFFLPNIRVFFFLLSTLFFFFF
7412	21313	A	7472	2	360	VWGFFFFFFGRFFFFFPQQEVCFFFFIF*G
7413	21314	A	7473	423	167	IFFFFFLFK*KNMFFFFFLWGPPPF
7414	21315	A	7474	1	73	KANTKKMF
7415	21316	A	7475	131	3	SGAPLFFFFFFF
7416	21317	A	7476	2	103	FFFFFFF
7417	21318	A	7477	2	325	FFFFFFF



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						FFFFFFF FFFFFFF FFFFFFF FFFFFFF FGF GNF*FYK*LLG NR DV CL PP SYL
7438	21339	A	7498	1	410	PTRPDQLIHLL*KNFLPLTLALLI*HVS IPITISSIPPY
7439	21340	A	7499	51	478	PQKYTLIMKICITPPGKGFRPVEMLAGG NENTRCLIEERSYKYHYSLIKLGLQQQC IFSLLYKYNMIYCLMLCYYIGYIFIFY DMYYRQYSVLYKLYNYVMLI*IYILYL FMCI*KYIYFIFM*YKYIFIYLYLY*YK YIFYIYL C VY KNIY TLYLCNINIYLYTY IYININIIY
7440	21341	A	7500	3	110	FTSKHHFGFEAAA*YWHFVDEV*LFLYVV SIY**GS
7441	21342	A	7501	168	327	AFCYKATVIKTI*Y*YKHRYTEQWSRTK NP DIN PYI CGQ MI IFLOL KSLH KI
7442	21343	A	7502	400	159	NNFSPLRNLIQGFFGPLKFPMGFQAGPPG *GFSFFLRSNFFLDVFRGKY*TFGF*DF FYCPSPNEVLGEPPPLMGGNKPGFP
7443	21344	A	7503	401	257	TSQKKKKKKKTPKKKKNR EK PPKKKR GTRGEPFKTGGKEKKKKKKKKKG PP*PQLVKRGGREKKKKNLWKKKGAF*K KKKKKKKKNPKKKKPGKTPKKKGDPG GTF
7444	21345	A	7504	44	344	LLASLANLALPPTINLLGELSVLVTTFS *SNITLLLTG LNLIVTALYSLYI FTTTQ WGSLTHHINNIKPSFTRENTLMFIHLSP ILLLSLNPDII TGFSS
7445	21346	A	7505	286	252	I*FAFHVGQAGLEFLTS DLP PASAS QSA RITSV SQHAWPVHNIFYSL
7446	21347	A	7506	3	213	REL PGLK RFF LLS LSSWD*WRMP SHPA TFC IFC RDEV LPCC PAG L L L VWN LKN CCC YHHH RYY CY
7447	21348	A	7507	400	20	SLPQKKV SLLKLKSAVQLVMF*DRFSLC HPG WRA*GQSGVTTASSLRAR*SSCLTW EYRP SPLPLADFLFW*RRGLPI*PRVVS NS*GQVG L LHQPSKMLKFSSLSPCARPL FFF FN RST NL R VQS
7448	21349	A	7508	349	227	SDFLTSANPPASASKSFGITGVSHHTRP *PRFLKVNLITYSEMEVYN*ASFRHVD*G GLELLTL*FTHLGLPKLWDYRREPPHPA LTKIFKGKP YIQ
7449	21350	A	7509	371	21	FLVETGFHHVG*AGLEPLASSNLPASAS QTAGITGM SHCAQP NPGS LNK TM LAVA TEQWVG YMWP SVFG HIT ARPEG KRL SD C LHS DT NV C VV C VCS GLI FVC FET GCR FA LQ PG
7450	21351	A	7510	330	14	DKVC SVT QAR VQWHDHG SLLFLSSGLR Q SSH LS LSSW DHRHM PPGM AN FFYF**R LRS HYVAQAGLK L LASS SNP TLTC QSAG ITGV SHNT WP K ALF SVT DL KH
7451	21352	A	7511	417	33	APPCGGGPPKR IFGP SRK RGKG PPPPKR FF*KNK PPK GGGK KS P PPKN FF PK KN LGPK KK SG FW GRF APP RAP GGGV FN FP FKAG GEK FFS RGE IN P PRG AG KKK GFF L GK KNT KKK TP KKK DL
7452	21353	A	7512	81	296	CL REG ASH SAQAGL HWH DH S SLHP*NP GLRG SS RL NLLS IWDY RC VPPS LAN FES CL LK II LG SP FP KNL

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7453	21354	A	7513	412	279	KKYTOGLGVVAAHYNPSTLGSQGRRTP* AQFETSLGNTGRPCLH
7454	21355	A	7514	74	126	KI*DWPVKGAPLQGPVF*NSTFRPRVRN RGPPWPRPGPTVWKG*NKKN*PAPRGSN PPFFFPGNPGPFKLRGWPGSS*GSFQNC KKAQAG*APT*KPGPPPQQNKV
7455	21356	A	7515	332	20	GERQVGSYFFMINTERLFGMTKKF*KWIV SMVAQHSSSISSGVVWFRGQELAFPLSPD WQVDYESYTWRKLDPGSEETQTLVREYF SWEGAFQHVKGAKFNQGKIFK
7456	21357	A	7516	1	167	RTRGQRFTVLLARIVLIS*HCDLPASASQ SAGITGVSHCTRPGGLSFLYPTAKHST
7457	21358	A	7517	2	223	GRMEEMGSHYVA*AGLEFLGASDLPA*A PQRAKILLLLGGHKGKPLTILPRLSSNSW PHVKWPRWPLKALGLRG
7458	21359	A	7518	151	476	SLGKFAVSFSFSFLK*RRALAVLPRLCNS NSWP*AVLLPWLRVGIAGMSYHTQPDY HFQARAVAEIILGLVSTQHSVTGLPVEN SFRAFHGGPRLQSQHFGRLRWADC
7459	21360	A	7519	3	134	CSFRLGAVAHHICNVITLGGRRGGRIA*AQ EFETCLDNIARPCLY
7460	21361	A	7520	14	219	APSIIHGFGLTYIHTHTHTHVVYMYI*V YIHThIESIKCQPLTQLQSNKKKANRIVF RTQFMLTCYFMR
7461	21362	A	7521	134	334	RKHSC*IFFNFCFYLSLETRSHYVASTG LDLASSNPPALASQRARITGMSHHAPP VLTRFKKSLF
7462	21363	A	7522	406	145	FLKTGFSPFGFPVF*TPPPGFPPPPPPPPI FGVPGGGPFAAPLFFFQPTKHFPPFL NPPSPPPQRQFRGFFLFPFAFFLKTPPF
7463	21364	A	7523	3	382	HPQEGGRGLTSLE*NTSLRLKKKKKKKK KRGGPKKKNPWGAQI*PGKKKKNFFLKR GAKKNHLGNFGKKPYFWGGKKLAKPPKK N*TFKGKKKFLRGKGKKTPKPWLKIF FSGFYLKKIFPPGP
7464	21365	A	7524	319	106	GTRSCSVT*AGVQWHDHSSLQP*TPWLKR RSSWLRNRWDYKHEPPCLNNFYFFCRDG GLLCHPGWSQSPELK
7465	21366	A	7525	433	228	MQPYNWEVNSSSQLSLSSARQRVTTHVLT GNFIK*ERWDPVLPRLVSKSWPQVIF PPWPSKVLKLQV
7466	21367	A	7526	26	351	CRSLVFSLPKPGPLRFVSILHIQVFSHDF FFFLTGNTQK*RK*TPFIFPA*LFKTPA PKPGMVAHTCSPSYSGGLDGRIA*AQEFR TSLGNKTNPSELEGGRKKKKPSGS
7467	21368	A	7527	438	62	QLSKIHRPPAGGRFFFKSGGGFKPFCPVGLPPFGKKANQPTPKNPPKKQKPSGGGLSPMGKPP*FPCSMPSDSPGSVFSRGGVAPAPKDYCPIV*AALIPSKKKKSKPG*VKKGKPNLYSIYNG
7468	21369	A	7528	3	132	FYYL*RRGFPVLPRLVLSNLQVILLPPW PPKVLN*AAHHPHG
7469	21370	A	7529	2	628	FFFLPVGVVNRVLLMGRGLGEANSREGRG PSQPRGMHGQLEVRGGRSQGDGWHGTLS PPWGRRIYRGAPPTFAAPQAPKPFQOLLPM*LPGRPSSCLLPETPALSPLPSAEWG FKLLTGTSETPGPSGSPSVGSANAQAAG

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						ATTIVARGHPTCRGPLDTAHSSLRWHAHTRPPPRPLAHEHGTHTHAHPHTPGAWVGE GFPQGWGRA
7470	21371	A	7530	63	205	GRPTRPRTRGVKIL*QFEHTKPTPGLPTLIALTLLLPISPFLIL
7471	21372	A	7531	390	56	KTFFFFNLIAFTEAKSVLLFLLLFFETGSRSQAQPVGQWHHQSSLQQPQL*LKGSSCLSLSN*DYRCAPPCCQ*SPCLSLLKCWDYKREPPHPAKESHMQQSYLIYSLYIA
7472	21373	A	7532	543	335	LAAYGGTCLQS*LFSRLRWEDHLSPGVQGCNELQLOHQCSPAWATE*DPVFKGEKKERVLVKVFS
7473	21374	A	7533	3	145	WCDHGSLEPRSPGLKQSSCLSLPSNWDHSSEPLHTTSWMWF*IFKFLNLK
7474	21375	A	7534	386	106	SWVTDEITMEI*ECVLNDNSDTPYQNLW DTEKVVLRAKFATLNACMKKSERAQIRHTCVHTHTHTHTHTHTGSKCLLRKYLLLTIQQQNIRIN
7475	21376	A	7535	398	2	SLQPLPPRVCFCSSPSPPRWDYRGAPP RGKFFFFFGKKEFPVGQGGF*FLPPGV LAPPPPQKGRISSGGSPRPRPFFFFFKIRISYPILAKQLKLCFLKKKKKSIQAIKLYHHQKNPITKSSVFWEAQPRA
7476	21377	A	7536	2	344	HSKCVPAAEVVTMAYYIRYLSISSLHILENIVHFFFHFLY*GPNNLFFFYFAGTRLIQRSWK*PMII**VHVQIKREGQIFNK*IFCMIGRGG*ITCGQEFETSLVNMVKPCLY
7477	21378	A	7537	116	224	LHTHTHTHTHTHTHTQFNKLP*LFIPCGHIPRRY
7478	21379	A	7538	1	383	WHERTHSRIIILFQGLETLPLTAFF**LLASLANLVLPPТИNLLGELFVLVTTFS*SNITLLTGLNILVTALYSLYIFTTTQ*GSLTHHINNIKPLFTRENTLMFIHLSPILLLSLNPDIITGFSS
7479	21380	A	7539	31	332	DNYLSSYSSSGSWMRELILASQGIRWEPIVDRTPSHHRTHHTHTHTHTHTHTTVLFRGPWTAREPRGHICGN*IRNQSP*KNPRTGKNLRTPHGW
7480	21381	A	7540	199	15	NNVQIK*QFEHTKPTPFLPTLIALTTLILPTISPFLIL
7481	21382	A	7541	337	157	AEIVPLNSSLGNRVRVLH*MESYSVAQAGVQWHDLGSVQPLPPGFKRFSCFSLLSSWDSRLYFRCHD
7482	21383	A	7542	28	313	RARIGSDQCLSAGTQVVENKSQISGDFMWNDFRS*SVTRVGVRWRNHGSL*PWIPGLR*SSGFGLPNCDYRDRNEVWGGKKEVTCPTVNLQKSQ
7483	21384	A	7543	493	180	GGFRGSWLVPRDGCGQGVGFCSLPPPSRKVKQFFCLRFPRRWGGREGSPRPSYFFFFP*EKPRFFFGLGRVVLNFLGQGVGPPWPSQRVGFPLTPGPRASFFFNL
7484	21385	A	7544	403	426	FF*KFFITFHTLFFFFFFF*FFFLAPPPGGFFFFSFFYQKIFLKFPQPEKFAFPFGGGFFFF*GKFPQFFFCAFVFFFFFFFLLENGVSLYCPGRSRTPGLKLSSRLLASLRAGITGVSH
7485	21386	A	7545	3	335	RHYSDYPDGYST*NILSSEDSLISLTAA





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						PPPGYFVFLVNKGVFVPGPPGFELPSPS *VAPPASQKGGVSGVSPCPRVWVPFFKK KKKLRGVQEQRCTMHLVVSKNVPVKPQK KSSIGSL
7514	21415	A	7574	2	383	PRVRSTAFSSIAHITRDVNNG*IIIRYLH ANGAKKKKKKKKKKKKKRGGALKKKPG GGQQKKGGGEKKKKNNFFFKGGEKKKPGGIFE KKTFFGGGENGAHPPQKKKTPGGKKKIL RGKGGKKPLYPWGEK
7515	21416	A	7575	402	69	KIFFKNSPLWKISHHPPTYRGFFPPFP* NFFFPLPGPYFFLGGCSHLGPPPCKGFFQ KIPPGFLFSPPFKKIYLFPPIFLAPP GVFLKAPPPPFFFFFFFFFFFFFFF
7516	21417	A	7576	1	119	LIFHFTSKHHFGFEAAA*YWHFVNVV*L FLYVSIY**GS
7517	21418	A	7577	219	69	NDISANTAIKKFWKLKPCKPTTEGWLN TYIHLVEYYATLKVCGDLYVR
7518	21419	A	7578	3	287	HASAQLNGYIEKSTPYERGFDPISP PFFIKFLLVAITFLLLEIATLLPLP* ALQTTNLPLIVMPSLLLSTITALRLAYE *LQKGLE*AE
7519	21420	A	7579	10	125	ALQTTNLPLVVMSSLLLIIILT*ALQTT NLPLVVMSSLLLIIILTLLAYEGLQKG LN*AE
7520	21421	A	7580	3	299	DAWRRLLDFDF*VELPTEARIRIIITSQ DVLHS*ADPTLGLKTDAPGRNLQTTFT ATRPGVYYGQCSEICGANHSFMPIAEL VPLKIFEIGPVFTL
7521	21422	A	7581	3	116	AFASKRTGLGVEEPSTLE*LGGGPPP* HTLEEPVNI
7522	21423	A	7582	398	2	RVFPAPKNSLQIFPPLFFFWGSPWKFFF TPFPFHFWFNGNKFNPNFFAFLFRLPFP GEKIPLVFFFFFTD*NFVENFFFFFLSLL FFFGGFFFFNM*S*LF*SPANFNV*VTH LFIIMVFFFHPDFWSFGPILW
7523	21424	A	7583	288	9	RGSKNLEKNSFPYKVNNHNGNSPLFPHL FFSPRGVGPFCCCCETRSRSVIQAGVQW HDLSPPGLK*SSHLSIQSSWDY*RAPP HPANFVYF
7524	21425	A	7584	1	124	RDGGFTMLPRLPILLTGLKQSSCISLPK* WDYRCEPLHLASC
7525	21426	A	7585	339	76	THPGHNGISVSPPKKKIPRGGGPPPLFP PLPRVGGGDSDL*PRKGGFN*TKPAPFPS SWGKKKELPFSKKKKKKRKKGSISTPF SRIE
7526	21427	A	7586	205	87	SISLSLSLSHTHTHTHTHTLSHPRCV PQPPIGLPISKWAKVKELIT*R
7527	21428	A	7587	353	256	PHPHSVTTLVTQQYQDPPPAKRL*LAEG SDDC
7528	21429	A	7588	159	195	QICRHVVHINFLMSMGSIMITPPSFLF LNFL*SYVAQAGLKHLSQSDPPASASQS AEIRGMSHNAWPHF*YFVELVHFIYINK FVGIELFILTS
7529	21430	A	7589	76	205	RKKPEPEKTCFDNITGNTYPCLSTYEHD SD*YYVNRT*LCAER
7530	21431	A	7590	218	20	LSLYLASHLWLKPPLPLEWAPSJKSSLRL GTVASPCNPSTLGGRGGWVT*GQESETS LANMAKPCFY

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7531	21432	A	7591	142	12	QIDYYYYLFI*RKGLTLMLRLVNSWLH IILLPWPVKVLGLOM
7532	21433	A	7592	2	224	QIIEALLITILGHYFTLLQA*EYSKAP FTISDGIYGSTFFVTTGFHGLHGIIGST FLTICYNPQLIFHFTSEHKFGLQAAP*Y WLFVDVARLFVPASIY**GSLFYPPPTSL RVLQGSLLHHFRDLRLNIFCNHRLPRTTP RHYWLNVPHYLJ QPPTNISLYLRT
7533	21434	A	7593	1	323	HAYGNTLVA*LVVTMTF*LPLVDGYIKK FTPYEGGFEPKSAARVLFSIKVFLVAIT FLLSDLQSALLLPLP*AVQTTLNLPLIVM AAILLDIILALSAYA*LLKGLE
7534	21435	A	7594	1	104	RACVCVCGVCVCLCILKMCVCVCVVC CVFCAC*KMCVVCVVCVCFAC
7535	21436	A	7595	383	43	VFISETLCEHVAWSQTTIESLGLGTVAH TLNASTLRG*GRMIA*GQ*SKTRRGNMDS SISSHQSQTIAQSPHLLGRHQPKWCMCVO AAEAVLKGQVETDASFQIQKIPINSLIN L
7536	21437	A	7596	2	331	WPPTGITPLNPLEGPLLNTGGLLA*GVS MT*AHHSLGENNRRNQVIQALVITILLGL YFTLLRASEYFESPFITISDGVDRSTFFV TTGFHGLHVIIGSTLLSIWFIRQLICNF TSKHHFGFKAVA*YWLNFTKYLVHPPTN M
7537	21438	A	7597	384	23	LFKTKQYRFLLPPFPLKIFFFPLKA*IF LGGFSHYFPPPCKGFPPKSPPW*IPPP YRKKHFCSHTPKPNLAPRWFF*KRPPHFF IFFF**RWGLAMLPRLFNSNS*AQAVLLL QSPEVGL
7538	21439	A	7598	401	189	RVLPFCAGWS*TPGLKCPTCLGL*KCWD YRREPPCLIRFYLFVYFLRQGLAMLPSSL VLNSWP*VTLLP*SP
7539	21440	A	7599	81	368	KCVIYPFLSITLGAKYDFFFFLEKELA FFPQGEMQGGNLG*LKPPPLR*RDFSCL ALPRGGNGRGAAPPSPPTNFGFLGGNGVYP SGPGGFETPDLK
7540	21441	A	7600	264	25	AVEHPQLRFLCSHY*NNIVEERLGVLAR TCNPCPLEDKAAWIT*RHEFETSLANMV IFCLDIGSKSFLSMRFSRCLLWKL
7541	21442	A	7601	1	196	WEPSLVGETNVINSFNQKYINWPGAVAHT YNAGTLLGGQGGWIT*GQELEITLSKKVK PSTYFTNTR
7542	21443	A	7602	315	82	TCTQVFIALFITAKKFKLICPLTDNWIS RVWYVHTMKHISAIKRKAVIHATMWVKL ENIILSEIKOSQKATGCMISFI
7543	21444	A	7603	334	118	PKIKTEGGPPPKKNAGGMYK*KKFILVL AAPPHPPFGVFSVFSFYSFWWFRFFFFF FFFFFFFFFFFFFLR
7544	21445	A	7604	3	288	DAYTT*NILSSVGFSFISLTAVILIIIFMI *EASSSSSSPPGGLRPRAFFPVRPPGAGL VF*VSVPPDLPQCSLAGLQVLRFMELAR LAPHIRWIQ
7545	21446	A	7605	354	33	EGRARYTRVPQRPRFHLLGIFFAPQLGK KKKFSFSKKKKKKNQLWLGAWSHANNL TKGG*GRGSRFT*A*EFRTSQKLGTGKGN MVKPISNTFKNERGGAELSQL
7546	21447	A	7606	401	161	YLVSHLLQIILPPALFVVVFFFF*DRVLL

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						CGPGWSAVVWSYCSLCLLGNSSSPCQSL PSSWDYRHLWRFLMPRGILCVYV
7547	21448	A	7607	354	50	SGAQDPAGQHGQTPFSQKVPKKVYPAWW CMVVPATQEA* LKKSLEPWRRRFLLREA FFVYLGVWLNGEPPPLGGGSVFLEAL EKSVGFLGFGWVFFF
7548	21449	A	7608	370	115	TIKNICNSWEVKIPRFTGVKKLIPATL MDDLEGFKTLVEEPTEDVV* ITGELEV PENVIEFLQSHDQTSTDEGLLLMDEQR RW
7549	21450	A	7609	120	358	TTAVYLGHYCQSP* ILNGTVNT* PPVVIH KDPILFLTPFPCFHASSAMNLQLSHISC NSKATPHPLGYQQTYPPLTIVHMT
7550	21451	A	7610	3	164	HE*ASIP*NTHTHTHTHTHTHTHTFYK EENLSHLNISCIFLGAHKGKKMN
7551	21452	A	7611	85	324	FRFFAFFFF*KKISFCPQAGGQGGILPS LDPPPPLKKFSGLTPPRSWN*GPCPPP GLIGVFLKKRGPFLVGREGPNLWT
7552	21453	A	7612	268	317	FLENCFNPGGGCSQPKLGPCCPAWGAK *ASLSKKKKNNKKN*LSYKAPSYGYKGK
7553	21454	A	7613	101	339	AVPLTMVKIHALWKRVWRFHINKSKL*LP CDAPISLVSMYPKEMKSVCALKDCSPRL ITGPLTIAGMWNPNRSSMDYSG
7554	21455	A	7614	366	208	LELTSGDLPASASQSAGITGISHRARP GTLFF*AVNGGGNQVFLFLRVLNGL
7555	21456	A	7615	30	328	NYCLDFHGETELGTTTFLTHPSTRAMVF EPYCQAL*IL*GVINT*PTVLHRNRSHI KAACLCLQARTVVNLQISHINWKY*TTPHPL*YQQTYPALEYI
7556	21457	A	7616	39	159	TPGLKQFFFHLGLPRCWDRYRHEPPRPCPN MYLI*ISF*CV
7557	21458	A	7617	290	91	KMSFLIFFRDMASLCCPGWT*TPGLKQS SCFHLPRLPRSWDHRCDSLHLAVKTFLYYFL KMFYQQNVWH
7558	21459	A	7618	37	246	TOOELVYIYRYIDTHTHTHTHTHTHTHS HTHYWIYTWKHTLKGPKLF*EKTKMGST PIISWKERLSLYRS
7559	21460	A	7619	23	190	IPPPQCPFLLSLFCT*IDMSCNMCACVC VCVCVYVCVICDMVLLPFCFKLECSK
7560	21461	A	7620	367	2	FFSPKALIFLGGGGPIFPPPPKKSFFSKIPP GGFPPLPGFLKPPPPPLF*NPPKKKK NFFFPPPPENWAPPRVFFKGPPPPFFFFFF FFFFFFFFWSSRFLIFPQFFFLLNNKIGKK KIFRHLCAG
7561	21462	A	7621	6	25	SVILQSIIFIATTNLGLPHSLPTT QLSINLAMAIP*AGAEITGFRSKIKNALAHFLPQGTPTLIPILVVIETISLLIQ PIALAERLTANITAGHLLMHIGSTTLA ISTI*LYYYNP
7562	21463	A	7622	383	67	AFLNPQKKPFPPGFKRFCCPPPCKWKG NRGPQPRGKIFFFFFFFVTKTFHVGPFFG F*ILTSGDPPGQQGGLGGFFFFQIGGT GDLNLSHKSPMPMFTINTHNKG
7563	21464	A	7623	372	35	TGGFWGVFFFFFFKQGFPFKSTGGNLGP KNPCPKGPRVSPPPPPF*NRGPQGGPPP PGKKEPFFFFFFFIETGFPVHALAGLEL PGSGNLPTSVSQSAGIPGISTWPNGVFQ
7564	21465	A	7624	287	6	LSGVEWVDHMINICLFFKKLPPCV*KWL

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						YQPVAVAHACNPSTLGGDRWIPGGQEF KTTLCLSLPKRWAHRREPLYLAFCPFYNG IGCLLIIGF
7565	21466	A	7625	271	277	NRGKGKIGSLGILEKNPFFGGGPFWANPP*GLKFVGVGVPKRPPPKKRVFFQNSQ GTSPFLPPLVLSGPGVLVKAPQKEKNITFQPPGKFGPPRGSLSKRAPPFFFFFFSLRKSSVIEK
7566	21467	A	7626	2	269	LLGELSVLVC*FPPKHTTFLLTGLSILFTGLYSLYI LTTQWGSILTHIIINLKPLFTPKNTLMFIHLYPI LLLSLNPDIIKKKKGGA F
7567	21468	A	7627	397	164	FPPPKKVFFQKNPKKKFSPPRVF*TPPP PPFPLPPPKKKKFFSPPP*IWPPP GIFE*KPPPLFFFFFFFK
7568	21469	A	7628	3	324	DGMNVSTLYGATGSHGLHDIMGSALLTI WYIRQLILHFTSKHHFGFEAAA*YWHFV DVD*LFLCGSIY**GSPGGPKFSRGKGIAVPHWGDD
7569	21470	A	7629	2	246	SGLGTTLS*KNISVLLTGLKILVTGLYS VYIFTATQWGSILTHHINKIKP*LTRENT LMFHLCILLSLNPDISYPGFTS
7570	21471	A	7630	112	290	LISGKGQWTQMRLPVLVTLFTDSFSK*K NPSTLGEQCGRIT*GQELETSLGNIVRP HLY
7571	21472	A	7631	248	2	KVPASGKRPEPHWYPYHAVPGCGRIPATAI WTQKWWYQGFPALSPRLECSGAISAH CYFGFPGPSDSPASPS*LAGTTGTRP
7572	21473	A	7632	383	106	GWGQCFKPAIPALERPNPQECFRPGVLN QP*PQNKS PFFFFFKKKKYIYICMVV HAYNPSYSGG*GGRIT*AQKFKTSLNNTRVPHLYKK
7573	21474	A	7633	435	133	YACLGLPKCWDSRHEPPGLANFCIFSKNRGFPISDRVINSWPRVFG*PKPPKMGG FQTLVQGASLGFLLIFLKTGFPFFSQHE EQGWDTSFQHRRFFRGK
7574	21475	A	7634	1	209	NAYRIVILCQKLFPPLLSGKMNFKKTRCW LGMVAHACSPSTLGG*GGRIA*AQEFGT SLGSILRPCHCKK
7575	21476	A	7635	117	495	STSFIGDKVQLRHSFLFFSLLFETKSCSL TQTGVQWHDGFSL*PPPPRFK*FSHLGP LSSWDYRHAPPRPASFFVFLVEMRFHHV GQAGLELLTSGDP PASASQSAGITGMSH HALAHLYFSSGK S
7576	21477	A	7636	1	241	LPGSSDSPTSASQVAGITGMCHHAQLFF FLAF*LIFNF*FFFGNSSFFVFPQAGGHW GIGG*LNPPPPGLKRFSCLT LWGG
7577	21478	A	7637	3	93	EAEAGESLEPGDRGCSKLR SCHYTPAWO QSVTLVSKKETKNTKTSEVPFGVNL LYKVSINILIFKEFYQAPLILV*DNP DSS TLSALQPQGQQSKTVSNKTQKTVS*PG NRV
7578	21479	A	7638	46	228	GIPHIQPSKSVFNNVHGPGTVAHTRNPN TLEY*GGSIT*GHEFETSLGNIVRLPPP SLOSI
7579	21480	A	7639	1212	1023	KNHSNEWIKKM*YICTMEY*AIRRNEIM AFAAT*MKLETIILSEVTQEWKTKYCMF SLVSGS

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7580	21481	A	7640	479	318	AEFLNLGDDGCSEPR*HHCTPAWATRAK FHLKRKKK
7581	21482	A	7641	470	172	RNIRPRENQYPVFMVAFFLIAKNW*QPK CPSSEEAMNKLRCIHTTAVLHSSEEEQP TDTHNNSDLRSIAPSWRSQTRAAHRMI PWHSKGKGKTPSTENA
7582	21483	A	7642	2	201	AGAPPPAWLPPCRLISDC*ASNQRDSVG VGPSEPYATVRKYLELLLQCMHDMCTY RFSIRIVLNL
7583	21484	A	7643	521	385	GGSPLETH*YTSGGGIPYTDLTGHHP S QGRIQEAPKLTHL
7584	21485	A	7644	331	3	DLVPKKGGGGKTTPRIKKFPPKGEDFF FFTPHYFVVVFVVFFWGGAFFFFFFFFFF FFFFFFFFFFFFFFT*DYYIS F*EERFNKFYRCQSTLVOIGHTSNL
7585	21486	A	7645	88	367	HCSFLLLGKKKKKKKKKKKKKKKKKKKK KKKKTKKNEYKNLLGGAPP*KPPSGALY KYRENFIPFSFERVSKYPYPRDLCKKNL FWGGLNIPS
7586	21487	A	7646	378	37	FFFPXFFFFFFSSPPPXFFFLEXFFXXPF F XXSFFSLPPLPLXXPPPPPPLFFFFFF F FFFFFFFFFFFFFFFFFFFFFFFFF NI*TIVL
7587	21488	A	7647	34	293	TGIPGVISAIIFMI*EA FVSKRKV LIGKK PSINLE*LYGCPPPYHTFEEPVYIKSTQ KRKESENPPKLGSSQPHGLHDFFKEKKKI IK
7588	21489	A	7648	22	106	KNFLPLTLTLL*KNFLPLTLTLLI*YGS IPITISSIPPQT
7589	21490	A	7649	1	231	FDRTISKDISK*MVLVSKKKKKQKKKK KKKKKKKKKKKGGGPFKKTPGGAPKNP GEEKIIFFFLGGGKNTWGFF
7590	21491	A	7650	79	286	VVSRCLVSLRNPCTIICKTCS*AKKKKKKK KKKKKKKKKKKWGAFLKIPWGGPIFPG GGKFFFFFFGGGY
7591	21492	A	7651	57	375	SGKSEFH RVPQWP GTGADACNPSTLGR GRWIT*GQE FETSPQ GDP I STKKKKKR GALLKDSLGGPNLP GFGNLKVFSFRGGI LKPTWEFWEGT FILGGEKIGPN
7592	21493	A	7652	3	357	LAFLLALS KITHASIPIPVSSPSKSPRS KG TKKKKKKKKKKKKRG GP LKKT LGGPK INGGKKKKI FFFKFGGEKKTPGGILEKK FLGGGKGMPNPKKIKPLGEKKNF*GEK GEKPK
7593	21494	A	7653	113	378	MGA FNLPFLLMGGGNPSGPNGHWVLGA GS YLGP GPKTPPKKSQKGGPPPDL*GRGG QCSPGT KPGGGGEKTGLAPPFTKSPLGF LQKK
7594	21495	A	7654	341	147	NFFFSLKPF IFFGGFCPI F PPPKKSFFS KIP PVVFFS PPF*EK IFFF PPPLNFAPP RVF FKGP P
7595	21496	A	7655	395	3	FFFFFF FFFFFFFFRGKSE*FVLFPVSPAP SLRG
7596	21497	A	7656	2	162	ESKGYTH TH THI YTHI YTH TYT PREH *PKA DVAMLILNKLF KPRC VALL
7597	21498	A	7657	333	28	LEFFNFFF SYFLFFS*RVWGPERPPPP LKKAV*KFFLFDI FLFFF FIFGLGFFF

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						FFFFFFFEEEEEEEEEFFFFFFFFFFF FFLEHIRLLMVFVTFSSHR
7598	21499	A	7658	1	137	HSSLGDRVRPCLKKKKKKKEKKKKKKKK KKKKKKKKKKKKGGGLF*EKKKKKKKKKK KKKKKKKKKKKGGLF
7599	21500	A	7659	236	32	TIFLIKFLYF*FIFI*F*FFLTFFYFKR LKILFFFFFFFFFFFFF*KNFIK NIIYFFIFYLFFYLKFFIYIKTFLFLKI
7600	21501	A	7660	301	65	KAPPKIFWFVVFFFFVSVFYIFFFFFF FLFFFFFFFVVVVVVVVVVVVVVVVWKS LAAT*FLRGFETF*LAYILKTT
7601	21502	A	7661	70	273	KHSPPHKPASD*NTELTIKKKKKKKK KKKKKKKKKKKKKKKKKGALIKNPWG GPIHRCGKEKKFFSFLRRD
7602	21503	A	7662	1	353	ILINTLALLLIIITFGLPQLSGCLOK STPYEGGSDDPISPARGRFSLKGPLQAMT FLL*ELEIALL*PLP*ALQTTNLPLIDM GCLLNIILCDSLAYE*LP*GLDCSRHYH SQRIQ
7603	21504	A	7663	1	131	FIRQLIFHFITSKHFGFEAAA*YWHFVD VA*LFLYVSII**GS
7604	21505	A	7664	2	192	PLSQSLY*LIAADLLILT*IGGQPVSYP FTIIGQVASVLYFTTILILPTISLIEN KILKWAY
7605	21506	A	7665	356	2	FFFFLSSPGCGSPTPARPKKNPPPWG GGLPLFSRRGALFPKNFFWGGYPFFLF *KKPPPFPPPGPQSPVTSPKDVVPPLRM PPPRPHVRPLGLPKKSFSSPRWEKQVKK TKKRAA
7606	21507	A	7666	312	2	FFFFFFFVVVVVVVVVVVVVVVV GFFFFFFFFFL*DRVLLLLPRLECNG VISAH
7607	21508	A	7667	1	233	FWLSSNAEFDANSCECLEVQRMIQDQD SFPTYHYFDMYVCIVY**RSLAVSPGLV SNSWPQAILOPQOPPQPSLGLQE
7608	21509	A	7668	174	295	IFFFLPFCGEHSLAVLPRLVLSWTQAIL PPLP*ILGLQA
7609	21510	A	7669	183	330	NKFKLYWSPVAMAHACNPRTHRGGWIT* CEEFFETTLANMVNVKPCLY
7610	21511	A	7670	3	319	TSNTLALLLIIITF*LPQLNGYIEKST PYESGFDPISPAPVPFYIKFFLVAITFL LFDLEIALLLPLP*AVQTTNLPLIVMSS LLLIIILPLALAYE*LQKGKD
7611	21512	A	7671	1	313	ARGERERERERERERERERERERER TQTDCKGGGRNT*RGREIYRESE*DDRPP FLPTYRVNLQRPVGLRRLKGAGDKTFC ILLTARDYVWPDYRMKRADHM
7612	21513	A	7672	3	91	TRRERERERDR*RERERERERERERER S
7613	21514	A	7673	1	115	DELANLFII*KAGFPVLPRLVLSWLOV ILLPWPPRLN
7614	21515	A	7674	3	232	TRRERERERERERERERERERERERER RYRE*DRERERERERERERERERERER AVALSGAPAVGRQTRERISR
7615	21516	A	7675	1	234	ARGERERERERERERERERERERERER REIERERERERERERERERERERERER AIERG*KPQGGFWWKEERVKKEPLGKLL
7616	21517	A	7676	1	262	ARGERERERERERERERERERERERER RERERERERERERERERERERERERER RERERERERERERERARAPQNL*ERWAH

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						TPFAPGVLSWREHTRGGPPWGKKEGGW GRGHGPPPSILRAKGG
7617	21518	A	7677	214	2	QQASVAQAGVKWPDLCSLQSMPFRK*F SCLSLSSWDYGGPPPCAGLHIWRRNVT LAQGLPTTSLALV
7618	21519	A	7678	3	341	HERHELEELIKTLFFFFFFRKKNHLCKP GGKKRGPPIWFLLKKFFSPPQKKPPPPPF LREIGAMAPQPGGLLI*NKTPFRPRGQ GGPKPPTPGKPNNPPPCKGNFPL*GPNP QPPGSPTPPPPQKVIFPFEGHQAA
7619	21520	A	7679	1	357	GTRINTLLALLLIIITF*LPQLTGYIKK STPYECGFDPISPARVPFSIKFLVAIT FLLLDLEIALLLPLP*ALQTTNLPIDM SSLILLIILTLSAYE*LQKGKD*TDFY SVGEAN
7620	21521	A	7680	365	1	PDASQ*HCTNGQSNRLNLLIKALLTTA KIWIQPKCPVVDARIKKMQ*IPRMEHPS AIKKEILPSVATWMSLEDTVPSRISQAQ KDKYHTVSCMWNLRLMLNAEPEGRPVVPR GVQGWGAARA
7621	21522	A	7681	387	3	FFFKEFCPRKKAKK*NWGPGLGPRG* KNFPFFFFPQKRKGKGGPPQGGEILGFL* KKGFPFMGRGGSKLWPLGFSPLNPPKRG GKKGEPPPPPQRGKPGGGPPPKGLFFFFF FFLRLQSLTSPRLLV
7622	21523	A	7682	107	290	ELNKRWGLGAVAHAACNPST**ELNKRW LGAVAHACNPSTLGG*GRWIT*Alefki NLDNKARSHLKIKKQHQQQKNSGLDA
7623	21524	A	7683	1	348	GTRERKPTWLWYHRERGMERDCSCVFGS SGISESRVWVQVGMEVYPAAIYLCLEPK YLVISEFSPAIFIWFLGLSVAHTCNPS NLGGQGGRIT*SQEFKTNLANIVRPHLF FFFL
7624	21525	A	7684	364	77	GGPSIFPRLALLGGGGPGGGPLPRGNFS FFNNFFVKKGVVFPPPGVFPPPLPPGVLP PPFWAPG*PRPPNFFLGAPGFFFPLG GGFPVAPGGV
7625	21526	A	7685	3	24	HEETIIQVKREPVE*KKIFANPTFNKGL TSEIYKKQLNRKKPNPNI*KQSSK
7626	21527	A	7686	1	125	GTRPGMPGTYSNPDTYTA*KIISIGS FISKTAFQPGPWE
7627	21528	A	7687	459	298	LSPLSSWNHMCAALPHPASFL*RQGLAL LPRLVSKSWAQVMLLPWPSKVVLGLQV
7628	21529	A	7688	374	248	FPHHNVHEVIVRPLSPRYPIISHVTCTY RSRWP*ASEGSKQQ
7629	21530	A	7689	284	163	GTVAHTCNLSTLRGRGGWIT*GQEIDTS PAWPPKVVLGLQAA
7630	21531	A	7690	83	255	KVDYVSIAKSEFF*DRVSLYHPS*GTVAR S*LTTPNPNGIKAQSTCPTVPSWDYRH LPLPTRTIFSVPQSLATILI*ITLNLY INLGKIHFL
7631	21532	A	7691	3	193	HERLDPADFSFNFSDVGLAMFPRLVL NS*HQVILLWPLTVLDYRHELLRPAWG FYIYLNFT
7632	21533	A	7692	1	364	NFKSFFP*LFYLYHILLFFGFGLFLFFLI KLGSSSLFINFSKKSVL*FTNWIYFSVLY FTDFCFIFIISFFGFSLIYFIIAVFPLK FIGFILFSFI*ITVFYGQAQWLTPVPIIL

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						WVAEVRGSL
7633	21534	A	7693	370	151	GKKYSVASPGLWPPQGFFKTAPPFFFFF FFFLK*RCGFTMLPRLVLPNPWPQGILPPQ PPKVLGLQVLRHHIWL
7634	21535	A	7694	3	373	WPGYTLNQAYAKIHFTIIFIGANLTFFF QHFLGLSGMMPRYSDYPDAYTT*NILSS AGSFISITAVIILFMI*EAFAASKRKL IVEEPSQSAGITGVSHCARAEYLFDRR DGLSLCWPGWT
7635	21536	A	7695	406	394	KFF*KKFLFPPTPTFLLEACLFFFLLPPI KGFLFKYIAPGIKTPPPPKEKFFSSLKV LFSPPYFFFIPPPPPIFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFRFEG ECWRL*W*FYFYFFKESPHCIP
7636	21537	A	7696	2	334	ILINNTFLALLLIIITFWVPQLKGYIKK STPYECGFDPISPARVPFSIKFFLAAIT FLLFDLEIALLPLP*ALQTTNLPLIVM ASLLLIIILALSLAYE*LQKGLD*AE
7637	21538	A	7697	2	95	LNLTIYIILTTAFLLLNLSSTTLL SRT*NKLT*LTIYIILTTAFLLLNLS STTLLLSRT
7638	21539	A	7698	423	326	RQCLTMLPRLVSNS*SQVILLPWPLKVL GSQA
7639	21540	A	7699	400	32	FHKEYESYFFSPNQPQFFFFFPHR*NFY VGVLKKQPPKKKFLLFTPERFFFPL *KKNIFFFP*YFFFPLVIFFL*PPPLFF FFFFFFFFFFFFFFFFFFFFFFFFF FFSNSNSFPFY
7640	21541	A	7700	125	407	FINSSTFVVVKPTTCNMQKHTPIARTKD LCITIFFFFLEKNFLFVPQVGGQGGILG *LKILLRG*KQFSCFTLPGRWTNGGIPP PPKNFLKKFF
7641	21542	A	7701	50	225	PWNMVKMSCWLGKVAHVCPNSTLGGRR RIA*AQEFEATS*VTQ*DPVSVIKKRKKN FK
7642	21543	A	7702	2	146	EIALLLPLP*ALQTTNLPLIVMSSLLL IILALSLAYE*LQKGLD*AE
7643	21544	A	7703	1	93	ILIINTLLALLLIMTMGLPQPKGYIKK STP*ECGFDPIFPARVPFSIKIFLIAIT FLLFDLETALLPLP*ALQTTNLPLIVM ASLLLIIILSLAYE*LQKGLD*ALLL LIMTMGLPQPKGYIKKSTP
7644	21545	A	7704	2	112	GRVGKHHFGFEAAA*YWHFVDVG*LFLY VSIY**GS
7645	21546	A	7705	1	325	TAGQFLPKLSILLSYNPAITFLGIYPKI LKYTYVYMKTCWMFIAALFIVVQTWKQQ SKLWYIQTIKYVSVLK*NELSSYENTS KLRCILLERSQYKKPPYFLIPTM
7646	21547	A	7706	2	169	SRSRAGTLAI*TINLPCTLMIFTILIVL TILEIAGALIQAYVFTLVVSYLHDST
7647	21548	A	7707	263	346	MLINVPLGLLFVGVLISKESPSV рDQGGV QWINLFSMQPPPTGFK*FSCLKA*ASDN LSPHEQYRLALSFLKLTL
7648	21549	A	7708	343	163	PKEF**RQGFFFHVGQAGFKLLRSGNPPP SASQNGKITGVNPLAWQTNNNSIPPMA
7649	21550	A	7709	459	144	FWPGASSHAFDPTTLGGRRGGRIA*AHEF KTSILGNIVRPPSDTCNPKVGLLLA
7650	21551	A	7710	2	83	NFLPLTLALLI*YVSIPITISSIPQQT

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7651	21552	A	7711	19	181	KYVHTKACT*MFISSLFIITKNWKQPIFSSIGEVNKT*YIHTMEYLFLFRNKRK
7652	21553	A	7712	392	49	SDIFNSDIFSHY*CSVF*SYLAYNRYLSFL*LFLEFIYSYP*IDHAFHCFLHPVSSFWLDFFLFIFSSFLFSYFFSYFYF*FYF*FIFNFIFNLFFILFYF*FSFFSKCLKFPC
7653	21554	A	7713	334	208	FFF*EWVLTTLPLRLVLPNQAPATILLPWPVKVLGFTGVSHIKI
7654	21555	A	7714	2	408	WNGMEWNGLKWNRLLERYGMQWNGLEWNRTE*TRMVWNAMEWTRIELNGLEWNGMECNGMHLNGLEWNGMERNGTDPEWNGTDPEWNGTDPEWNGTEWNGMEWNEVDSNGMEWNGIDSNEMGWTRMEWNGMESTRV
7655	21556	A	7715	362	223	VWWFMPPIPTLWEAEVGG*LEPRSSKPAWATWQDAIFKKKFKHQHP
7656	21557	A	7716	2	335	LIVIINTLLALLIIITF*LPQLNGYIEKSTPYECGFDPISPAPVPSIKIFLVAITFLFDLEIAALLLPLP*ALQTTNLPLIAMSSLILALSLAYE*LQKGSD*AYMPRPRPFVHKILLRSYLLII
7657	21558	A	7717	2	142	SITL*LPQLNGYIEKTTPYECGFEPICPARVPLSIKFFLEAITFLLFDLEIAALLLP*ALQTTDLPLIVMTSLLLIIITLSSLAYE*LQKGSD*AYMPRPRPFVHKILLRSYLLII
7658	21559	A	7718	6	92	FFEEAAA*YWHFVNVV*LFLYVSIY**GS
7659	21560	A	7719	417	164	PLEPLISGRGLPQIAPPPKKGSPPKSPRWFFFPPPKKKNYFPPPPKILPPPGFF*NPPPPFFFFFFFIFIYFFFKTALPL
7660	21561	A	7720	25	401	THNS*DPNWID*IPHYA*P*TSTVKKKKKKKKKKKKKKKKKKGGGLIKKFRGGPKYTGGGKIIFFFFFMGGKKKPLGDFLKKNFLGGGNLKGKHPKKLSSLQKKKKNFGRGGKKTPLCRRGKKS
7661	21562	A	7721	388	2	APPFFFFYFFFFFFFIFFFYFFLGVGFSFK*N SKVFWISNFLKKILRVCFCISLEKGINPFLEKCFYMFVVAFIIRLNFSLQAKFFLINFALLPFPETFFFFPFFFFPQIEDFWHPYIEQVYQLSFLSLS
7662	21563	A	7722	389	71	FFLPHQKVQVFPFFFFPQKIFFFFQSRVFFF WGGWAQKPPPPPQKFFFQKTPPGFFLPPP*KKKFFFFSPRFFLPPPGFFFQKPPPNFFFFFFFFFQKFFFLN
7663	21564	A	7723	77	220	TPRRGWAYWLMPAYPAILEA*AGGLEPKSLRSTWPTWRNSISPKRK
7664	21565	A	7724	16	258	ISSFVFKRRSFAMFPRLVLNNSWPRVVLPPRPPE*LGLQACTTTSFNFNFDGIFLRPLKEDVTARDQREILYVFALFYGGAA
7665	21566	A	7725	353	111	IFGAGPFRVKAGGQGANRSRSLKPFPPG NKWSFPFSPSKWEGRG*PPRPPFFFFFFIREGVSLCCQGWQSIPGLKQSS
7666	21567	A	7726	2	185	MSMGHTRLSSAWTGKPPLSVEDDFEKLWEISGGKLEAEIDLDPGKDEDDLLLELS*MIDT
7667	21568	A	7727	346	143	SQAFLYLESFLLLLLLY*FLFFEMESHSTVQDRVQWRHSSLQPLPPRFQQPSRLTLPSWEAEVGG
7668	21569	A	7728	411	221	NLRPPGSSYSPASAS*TAGIPGARHHTQ

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						LIFAFLAEILKNLAKLYLIPRKPNIYYL PNCYINI
7669	21570	A	7729	2	303	AAASTNMILLFLGRHLVVEWLGHMVGLI FTFKKLPNQAGRRGSHL*FQHFGQRWE DHLRSRVQDHPEQHSKTPSSLQKNKMSI ESNLLNIHKLFSTGRM
7670	21571	A	7730	67	65	SICEYCFVSSVFVLKRLFSVMQAFSLEG CVSCQS*AFLQHYLFKKLYFLY*WGLTM LSRLVLNTPWPQVIHLPWPPKVGLG*AF GNEA
7671	21572	A	7731	354	238	QSILDDVAMVLD*QAEVFIVKMWRLLIY VHEAKKIGLVK
7672	21573	A	7732	33	186	RGALAVLSRLILTPGLKESSCLDLPKGW DYZWEPPTPGCFF*LMVLVLVSF
7673	21574	A	7733	1	181	VNAGADCSSIGGVPFLQHKKCHGKDYE RGITTLERSYVEETTEHLVSKSK*PLRA QINL
7674	21575	A	7734	336	80	HKLKEPPGVFPVFPFKNLEFGPGDPKFF FKKAFTSPILSFFFGKIKFPIFRFRGENFA P*NFGKNS*KPRFSPPPDKKKGGFFFFF F
7675	21576	A	7735	2	163	TPVSTGTGPVPTLT*VPSPIIFPVSEKWA GCLHLCLNFCTELRLLITSLLTIRS
7676	21577	A	7736	87	258	KAPSVCFLSALLMLLRMSARTSVCTVRP LSPS*AVISPVTCTYTSRWPEATEDSQK
7677	21578	A	7737	1	103	LDSKGIIYMTLQPSKLEPKLEANVEIREH MLENSSRF*RDLYDSAFAFKARTKARSKC RDKRAHVGEFF
7678	21579	A	7738	193	300	GGLPPPPPPPPFLKKRGFPWTRGGPN PPPLEMGGPTPPKGWNYGGGPPP*FHPF GGVGPPPISKGGGLGPPRVTQGKPLFEEK KKKKNGGGGGKPPYSPFLGGVKQKKGVNP KGGGSKKPKFPPPPPPPGKKKPKFLKKK KKKK
7679	21580	A	7739	150	17	GRVAQVWWLMHAIPAL*KAEAGRSLEPR SWTPDWGTWHLPISTK
7680	21581	A	7740	1	358	SPPRPPPPPPPPKEFKKKLENPPPPP NPQKQNPPPKTKKSPPTTPKKPKIGT PPQTPKKINCS**KKNNNPPENKKGLNYP NKPNNPHAPPKEPKOREKPLVPTKKKG PSPKKK
7681	21582	A	7741	235	147	F*FFLGDEISLCCPGWSLTPGLEQASCP GLPRRWNRYCEPPHSVKTIF
7682	21583	A	7742	131	12	AASTYQG*FKICGAILRLMPIVIEFIPL KILQIGPVFTL
7683	21584	A	7743	1	184	NQYPWCFCNHSMSMGKESKTLNRSGMVAH TCNPSTLGGQQGRIT*A*GSKSSLGDKV RPHLY
7684	21585	A	7744	347	202	SLFVETGYHYVD*AYLELLASGSPPASA SQSGFISSVSLCTQPMFQFE
7685	21586	A	7745	138	263	KKRKTYIHTKTCM*MFIAALFIRVRWK QSKCHSADEWINKF*YIKICLSIHQIQLND IWIASTF
7686	21587	A	7746	358	169	AAAVAERTQNTEKTEDLVLGLWIKKVIY WPGVVVAHVCPNIPITLGGRRGGWIT*GQEIE TSLPTR
7687	21588	A	7747	78	346	ATQMLRNQVKIKLKPSPVEIIPFKIVPQ FQVQKIKSQQNNFLLLFOEQSIFIATSTG

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						SVRPLSPS*AIISPVTCTYTSRWPEVTE KSQKK
7688	21589	A	7748	222	98	KKKARHGLGAVAHACNPSTLGGQQGRIT *VQEANIVRTCLY
7689	21590	A	7749	314	52	LNNVDLQFFLGPGRKKRNLDSSLFVSA EEVRIMYCFNKLAIIHLHYF*FSNKFIVFV *KFGHLLDENMGSKFDNIGMNAKNDN ASK
7690	21591	A	7750	371	216	YHTHTHTHTHTHTQIPSLPLNLEGPVGY LLSCGSLHLKNLW*KCMRKERKK
7691	21592	A	7751	3	238	FLIQTGFHVSQAGWELLR*GNLPALAF QSAGITGMSYLCVAESLYLLPPFLKILC SSLTLSPYDTWKVALLCSYTV
7692	21593	A	7752	2	247	NSDIFDIYIIQYIFLIIYIIQYIYLI *VFVLIFFKFTLK*EFIFISLSISFRIA FIVYRDVILLFLFFF*NFVGDSIS
7693	21594	A	7753	359	2	TLKIRPLLYLPFFFFFFF*KKKIFFFP GGKGKV*SGFYLMGRGTFSLLFFKRFFLF YPPKEGGLRGSPPPPSFFFFFKKRGF P FLARGV*KKGPGQGTPLPWLPKSLGLRG
7694	21595	A	7754	3	174	CSVIQAGGQWCGHSSLQP*IPGINQSSY LSFPSWDYRHATMPS*FLFFIEIKMLQ
7695	21596	A	7755	292	219	IWPPLSHVHSNPLTHSPSQVDQGLFTTLL PCLSGYMYVQFPPLAEMPFISLLLENAC LSLCEGSEAQPKLLLWEGLSYLPPLNQLP LCL*LVCVICSGGVCRCLMCILGVCVCMH VCVSVCPCHTLAQETKGC
7696	21597	A	7756	2	195	VALMADGAIDTESNDYGAFMPLGIERGL DRIWEMPELWLRLPNEFDCMTD*PCIQHA PSVSCGLA
7697	21598	A	7757	4	280	DHIVDMITPSFTRRTIAVF*DLYNLYIVI RGHITSILKPNKNLKLWYIYTIEYYSA LKGNEIHTATIWINLENMQDEINQTQKD IYCTISLI
7698	21599	A	7758	352	107	FLTRASRGHNGGETIVTSWPGAVAHVCNP SSLGGRRRWIT*GQEFKTSLANMVITFF ISKNNSNRFLSQFPISLRPTHYKVLS
7699	21600	A	7759	92	4	RPSPRRGWTA*GQEFKTSLGNMVKPCL Y
7700	21601	A	7760	92	4	RPRRRRGWTA*GQEFKTSLGNMVKPCL Y
7701	21602	A	7761	328	124	PLFSFLFFFCCCCCCCCSRRDGVLPC C PGWS*TPGLKLSSSLCLPKCWNYKHEPL HTAHHNF
7702	21603	A	7762	1	167	V DSTDKRPAGAVAHYNPSTVGSQGGQT *GKFNPSLANTVKLFKKKKRKRGALF
7703	21604	A	7763	309	226	RPRRRRLTLSPLR*CSGAISAHCKLRLPG
7704	21605	A	7764	349	7	QVFCLFFFVCFSSIFMTFNE*QGLKVT SGISSNVY*FLLIWILGKITTYQDIGRCFS EYGSPEQHNILGIVRNASSRLGVVAHTCN PITLGG*GGWIT*GEGFETSLANMGKPL LY
7705	21606	A	7765	43	339	FFFFLFFFFFFFIIIFLLLSFFF*DHF FVSLLFISNFVFLFPPIFIFTVFQAHLFICLL FFPICMFLNLFFPNFNYYFYPFPLFFYL LFFFFG*FFNHFLY
7706	21607	A	7766	352	102	HTSCLIICKSSLSKMNISCVSSSISFFF* FILIEIGSR*VVQAGLQLLGSTDPPASA

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						SQSARITGLSHAQQLSSTSLLVVENVEW
7707	21608	A	7767	346	90	TPPSSFFSFPPFPFFSFIFPRFFFFSNR DRVLVCYLGWS*TPELK*SSQFGLPKCW DFRCGPPCLTSTAFYISITVNFSPSNCYS
7708	21609	A	7768	278	87	AASTGVGPSEPSAGYYLLVCRLRSLEK CSIRVGVT*FSRCHLSPSLTRKGNSLT PCASRVR
7709	21610	A	7769	5	272	AVYHPINESCVLNIGKDSCLLY*LFEKK KKKKKKKKKKKKKKKKKHYE*FNTFPG VARKINLFLCIQKVDAAGGTLWGGGPI FFFFLL
7710	21611	A	7770	198	33	QRPQSRQCRAWLGMVAHAYNPGTLGG*D RRTT*GQEFTKTSLGNIIVRPYLYEKMF
7711	21612	A	7771	97	410	A*WLMPVPIPIWEVKVVRLEPGSLRPS WATWRKP
7712	21613	A	7772	5	415	ILCVYLHFVGTHPFVHL*YMHFLPLTLA LLI*YVSIPITISSIPPYT
7713	21614	A	7773	1	342	VVRVTSGHSG*AAAYAT*YILSAEGSFF PLTEELLI*FMKREAFT*KR*VLIHEP SINLD*LYGCPTPYHTFPDPVYLNKRR RRDHSPPPKLASRLPHVLHDFKKKKGR RF
7714	21615	A	7774	398	122	SPPPPFPSSPSFFLPPPSSFFLFFLF FFFFFFFFFFFFFFCRD*VSLC CPA*SQTPLK*YSYHGLPKFWNYWHEP PCLAYFL
7715	21616	A	7775	1	336	FNFLLIIIIEMESRSVSAHKLSPGSS NSSASASRVAGSRGAHHHTWLFFFFFF F*KKKGAPPGGQGGFLTLKKKNPPRAP QRQGINGGTPRPQNGGGKFFPWGEEKKF
7716	21617	A	7776	1456	1232	FAIESHCVTQAGVQWCNLASLQPSPTEF K*FSCLGLPSSWDYRCVPPHPANFYIFS RDRVSPCWPWGWSKTPDLK
7717	21618	A	7777	400	2	NTEFPYGPPISLLGM*P*EMETYIPRK P CTQMFLEVIFTIAKK*KKPKRS*LING* ILVYPLMEYYSATKRFDVMIHTKNDAI GNILSERRQM*KTHIVYSIHRASCTAE VRIVKVSYKRAATWIKSILIA
7718	21619	A	7778	360	218	PYLANF*NLL*RWHLNMLPPRDSNSWPQ VILSLWPPRVLG*QRGGRVEQRGARGNW MSKCPEGGDCLCWVAGA
7719	21620	A	7779	1	372	FEVRSCSVAHGVQWHDHRGFELGSSD DPSVSASCISRITGASHCTQG*L*LLTK VL*VSAFCLSNTLRLTSLLKSDTFLGS RSKLNSLGESELQTYISPSRHFIQLLCFR SLFPRFLVKHKK
7720	21621	A	7780	372	219	ATSLLSYFKKLPPQQPOSSATTIISQ*S STSRQDLPPAKRLELTEGSDDP
7721	21622	A	7781	358	145	IKNIHDSWEDVKISTLTRV*KELIPVLT DNSEGLKTSM*EVTAEVVEIARELELEV EPKDVLVQFHDTINR
7722	21623	A	7782	317	146	GRVDCKCPFYRFQMLLVRLGMVAHCNP STLGGRRGGWIP*GQEFKASVSRMPRPHLY
7723	21624	A	7783	13	186	DRVSVITQTSWAHPPTSAS*VAWTTCMH HTWLNFVFFVEMGFHHVGQVGIRLPLLS WK



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7741	21642	A	7801	344	105	PGFFFFPPPGKRGFFPKPFFLGTGPGFFF PPLF*NPAP*FFFWAPKKKIIFSPPPVGK KIFLLKGPPFLFFFFFFFFFFFF
7742	21643	A	7802	68	216	VHTIAKIKWQPCPSMDD*IKNMRYLYT VE*YSVLKEREILLYWGHYAM
7743	21644	A	7803	407	3	GFIH*FPLFSGYTLDDQTAYAKIHFIIIFI GVNLAFFPQHFLGLLSGMPRRYSDYPDAY PT*NILSSVGSFISLTAVILIIIFMI*EA FASKRKVLIVEEPSINLEWLWYGCPPPYH TFEEAVYIKSROKRKESNPPPMY
7744	21645	A	7804	2	156	THRRRIIILSQQGL*TLLPLIAF**LLASL ANKKKKKKKKRGGPFKKFPWGAKI
7745	21646	A	7805	2	309	THSRIIILSQQGLQTLLPLIAF**LLASL ANKKKKKKKKGGAPLKKIPGGAKEIKRGM EIKNFSQKGGEEKKTQRGIFGKKPYLGQQ NWEKLPKKFKGLKGKKNF
7746	21647	A	7806	110	362	TLSLDLERLLMKAVSHFLMDLLEKC*CV LKNQSSKKKKKKKKKKKKKKKKKKKKKK KKKKGGGPLLKNSWGGENFPGGEKIFFF FFRGGF
7747	21648	A	7807	295	108	KQRGFVFFFFFEMESRSVVAQARVVQWCNL SSL*PPPLGFQFSCLRIVYRKDSLSPN KPRLLP
7748	21649	A	7808	2	142	GSTFFFVATGFHGLHVIIGSTFLTICFIR QLIFHFTSKHHFGFEAAA*YWHFVDVV* LFLYVSIY**GSTFFFVATGFHGLHVII GSTFLTICFIRQLIFHFTSKHHFGFEAAA
7749	21650	A	7809	390	2	PASLLHCG*ISDCCASNE*GSVGLGPSE PGAGYNNLLVCHLLRPLEKCSIRVGVTRF SRCCLSLPLPDRKGNSLTPCTSQRQCL ALLQLTLGALHPVSCTHCPTISGEMNPV SQLEMQKSPIFCVTHAG
7750	21651	A	7810	1	157	FLHFGQAALLELLTSGDPASAS*SAGIT GVSHRAQLVCTFITIYVFLKNSSY
7751	21652	A	7811	368	44	QNFPPPKRKLPPQQPLFFFVPSFKGEG FFFFLRLGFFFFSSAQRALL*FIYFIFFF FFFSSWTRSLPLWIARHNMMHKVVGW GVSWWTRSLPLWIARHNMMHKVVGW
7752	21653	A	7812	400	80	PQNSFSPPGGIGGGFPPL*NNFFSPKA FFFLGGGFSPPFPFPKKSFFFKIPPGFFF SPPLKKKIFFFPPPFLLAPPRTFFFKAPP PFFFFFFFYYYYKKYFRHI
7753	21654	A	7813	119	230	SEEFETSLRCIVIPSL*KKKKKKKKKK KKKKKKKKKKKKKK
7754	21655	A	7814	3	412	HEQEHL*LLP**PLAII*VISTLAETN RTPFDLAEGETDLSGFNIEYAAAGPFAL LFIGEYTDIIRNTLTTTIFLGTYYDAL SPELYTTYFVTKTLLLTSFL*MRGYP RFRYDQLIHL*KNFLPLSIALLI
7755	21656	A	7815	1	183	RLERLSEFSTRRERERERERERERD TRIDIYIVSQRKKYIV*IRRNIKVYHA EFSKR
7756	21657	A	7816	484	97	QPRTPDLK*FACLGLPKCWDRHKPPCL ASDGNHHS*SSPGLLVLSSASAVSPSGHMS PSQQTSPWVSEESLLLGRVPGFLYFPV DAPGPGAWLAHVVOAVLKLGGSSDPVVL PSQSAGFAGLSNCAWPW
7757	21658	A	7817	2	219	ADRIRNS*EA*EREREREREREREREPY

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						PPSHIYTDRNRH*MRHEERTLFLWGSGE VRDAAPWVSHIPNTAL
7758	21659	A	7818	190	292	NSHLIFPWTKVFFMS*CTYNLVLPGSEK KFYSHA
7759	21660	A	7819	498	139	RRAATPAPAAAEEPPPPLQRP*PPSEPPD TORDARGRRRGEDPGNSPFHPNPDROPS RALCSTPRMHRLWIGPAFFLMTSLSVSG AVIPRNGGGPGGVSSGPCLLQLLCQAGS STIRKIPS
7760	21661	A	7820	489	330	ELGFLHVPOAGLELLS*SNPPASASLPT SWDYRHDHRTGHHPGIYDSKMCIF
7761	21662	A	7821	490	260	FFLXXXNXXFFFFFFXXFXXPFXXXFXFF FFXXXXFFFXXXXXXFXFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFLY
7762	21663	A	7822	493	482	VGQAGLKRLTSGDLPASASQSAVITGV S HRARPIMYFRYVQ*AKGSHV*RWY
7763	21664	A	7823	456	121	ASFFPIQYKGLGGATPPQEGGCG*GIPK KWGYKRRPQGPQHGGSKRPTQ*KKSYFI NVLVLFYLRDKGLAIPTILVSNSWAQVIL PPWPKVVLGLQTRVTVPQGNQNLKENMFF
7764	21665	A	7824	294	457	LCIGFVILISYFNIMENWCRCPTGAHT CNPSTLG*GRQITRSRDRDHPGQHG
7765	21666	A	7825	26	235	SVWWNSQTGNVKVFTISW*IDKQMRCIH LMEYYSAIKNEVLINATTWINLNNTIK LSKRSQTLKSNTL
7766	21667	A	7826	30	303	SYVSVVEFPGSSGPTLPSPWHQTPRTYL NSVASAINLTQCPH*PEKKKKKKKKKKKK KKKKKKKKKKKKKGGAFKKGP*KTPK KTPGGF
7767	21668	A	7827	464	21	REPPHPAPADILILHFWPLEL*ELISVV LNTRCVVICDDTPRKLTQCPMPRLLLQTEPL*VLFNSNLGSFGSLSKS*MGLVNFFC KGTDSSRSFSLFVAVFCFLFL*RWGLAMLH RLVLNCWPQVILPPPPPQLLGLQVEATT HEFHGTE
7768	21669	A	7828	372	205	FFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFIKKFFI
7769	21670	A	7829	463	313	DIYPERRNSKIMSFAATWMKLEATILK* LKNRKPNIVCTHL
7770	21671	A	7830	449	266	VVQMRFLHVQAGL*LLPSGDPRASQVO SAWITGVSHHAQRSIFFKKRNNDCDRPNTECT
7771	21672	A	7831	480	148	IELRLSHGAAEFHRPREWYGIFKVLER DFYPRIIYPAKIILRHEGEMKTFPDKQT LRHFINTRPVQVQEMLKKVHQSEIKGC** ATNNNHLKVKKKKNSLGW
7772	21673	A	7832	23	131	QRGNSKGYHLKMIQOEEIRKLEEEKNQL EGEIIHFYKMKAASEALQTQLSTDTKKD KHGKKQ*FL
7773	21674	A	7833	16	339	NTDTLGSLSMAFCRDGLAMLPRFLNTRGL KRSSCPDLPNCWDYRHPGPYLASFVLLK *TLSILLPPYYHKMHTCVMVLCTNFCG GVCPGMELLCLKVYGYLSLKHFTF
7774	21675	A	7834	355	70	KKTPRGFSGVFLGPFYKKGPLFFFFFF FFFFFFFFFFFFFFLFLQFFILCQQLF S*STEKTVHSKYILSFPFHCLIFCPFIL LCSTFCNGAHY
7775	21676	A	7835	494	282	PENGMIQGGGACSEPR**HCTPAWAKER

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						DSVSNAKTIQNNKKNLGN*HSISTAKAKN IIIS*YKSELRKKM
7776	21677	A	7836	305	185	LVIETCLTVRPLSPS*AIISPVTCTYTF RWPEVTEESQKK
7777	21678	A	7837	179	191	LGCRKYLFYLNNGGLKCLYIKCVCVCVCI YIGVYIGMCVYICIYIYLMAS*NQVTSF LSFYVFLNNYR*IPVKVITVLFNLRLMTG LP
7778	21679	A	7838	466	343	LGRLRQEENHLPPEGRCSEPRSRPCTPA WETEEDAVSKINK*INK
7779	21680	A	7839	451	89	IRDTR*SGVICLPLPKQAWAMVGAPPASL PPCSLISDCCASNQRDSVGVGPSQPGGG YNLLVRRFLSLSEKRSIRGVGVNRFSRCH LSPLSLTRKGNSLTPCASRVRQCLALLR LAHGARTH
7780	21681	A	7840	442	164	AHTNQFSQCIIKKSVTPDLMEEMYKKAHA AI*ENPVYEKRPKKEVKKNRWNCPKMSL AQKKHQVA*KKASSLRAQEQAES
7781	21682	A	7841	494	359	ICMLPRLVLNS*PQVILLPWPPKVLGLQ A
7782	21683	A	7842	577	224	IFFFFNKIFLFRPGLNLMGDIWVPSTPP LQG*TNFPPQPSQEVLQKAPPPPGLIL VFLSRQGFPLGRVGFHFPPGDPPPRP FKKIWSHPGGGKSPPKKKKKETAEVLG AFRLR
7783	21684	A	7843	404	56	HTLSTNVCSSYLNLDFFSLRGRGLIMLP RLALNSWAQEILLQPQPE*LQLLRRLRQ ENLSPGVQGQPGQHNETPTS
7784	21685	A	7844	1	323	INTLLALLLITITF*LPQGIGYINNSTP YEGGFDPPISTARVPFCIKFLEAITFLL FDLEIALLLPLP*ALQTTNLPLIAMASL LLIITLALSAYE*LQKGKD*AE
7785	21686	A	7845	419	159	FLFFFFXFXXYVLSCGIY*YWCNLFSS* QYFFFYVMAFRILFTFLFHFYYNMFF* CTYFYLSC*FEYICSHIIHYFIYFLHL ENF
7786	21687	A	7846	475	124	FFFFFQPPQKEGGPPPPPKNFFFFFFTRI FFFGVFFFFFFPPQKNFFFF*KTKGVFFF PFFF**KIFFFFPGVFFFFPVFFFFLSPPP SSSFFFFFFFFFFFFFFFFFFFFFFFF FFLKRGQAS
7787	21688	A	7847	6	189	LIDTVSPSVALAGVQWCNHSSPQP*PPS LKRSSRLALPRWDYRCAPLCKAHSFNS NHEK
7788	21689	A	7848	20	249	KINFIVVELTCSNTVHTFYVYGFDCKIL PTTQLFFF*ETGFHSVARLECSGVIMA HCSLDILGSSWRPANFLNFL
7789	21690	A	7849	101	398	LFQKKKKKKKKKKKKKKGGPLKKPGGGK NKGGEEKKKIFFLKGGEKKNPGRGNFKKKKT FFGGGKKGEKPDKKKKSPEEKKKF*RGK GGKKSPLICWVEKNLG
7790	21691	A	7850	87	226	GSLSPIMLVLPFLIHLL*KNFLPLTLAL LI*YVSIPITISSIPPQT
7791	21692	A	7851	2	440	GAIIRRLLH*FPLFSGYTLHQTYAKRHF TIIFIGVNLTFLPQHFLGLSGMPRRYSD YPDAYTT*NILSSVGSFISLTAAVLITTL MS*EAFA SKRKVLLVEEPSIDLERLYGC PPPYHTFEFPVYIIISRP RRKESNPALKV

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						SSQPHG
7792	21693	A	7852	1	80	SSLILLIIILALSLAYE*LQKGLD*AE
7793	21694	A	7853	5	135	ATFLYFS*K*SLSMLPRLVILNSWTQAIL PPWTLKVGLCFDFPL
7794	21695	A	7854	38	419	FVMMPLHSSLGEGVPRPYLKYYYYKKPPWE GGSPPKNFKNQIFA*NQKPPFFFFFIPPN KKWGSPPGGGASPL*SHPSGGPGGPNNK VKISKPKPCPPGGTPVFTKTPPTFT*PWGP IPEKEGRKTVCPRTH
7795	21696	A	7855	398	61	FFSPRPRGGGFPPPPKNNFFSPPTIFF GGGVWNFFPPPKMVFFLKIISPVVFPPPL IRKKIFNLSPGSFWSPQGF**GPPPKF FFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFF
7796	21697	A	7856	1	121	LDASGRLLPPSPKPIKIKNYNRP*EPK*T KICSLHSLPPQS
7797	21698	A	7857	1	332	TPIJARPAQSARGAEGRRI*IIALQVC NKKWPPTKLHC1KKKKKKKKKKKKKKKK KKKKKKKKKKKKLWGGGGGNFFKKGGKK KLGGGFKKRGRKKKK
7798	21699	A	7858	3	191	SPRHLTRAAGIRHEGQTGLLTLGNLP ASAS*SAGITGMMSHRIGPRMLDLLTLVS WKOHGL
7799	21700	A	7859	503	62	FFFILNCCLSGLRHLLIKLFEPQFLHL*N GGMVLSTIILSIKSPLRSPSLSYSWL**P REKIKWWGGQVRWFMPINPRTLGGGGQ IA*SQEFKSSLNDNMVRPYLSEPP
7800	21701	A	7860	355	86	YIKG*QMVGNGRASQAGMTGYGMPRLIL
7801	21702	A	7861	336	225	PQLAGPVKTVRKVYKKEKARVIEEEKNN FKAFASFRKGRANGRVRFGIRAKKAKEAA KQDV*KKPPIPLAGGSTREPPSQAHLF PQNPPRGNPP
7802	21703	A	7862	465	170	GGPPPKTHPFGGERGGKYHRGKKKPPGH QRVNPPSKKKKKNWGRGKNPFTPLIGG GQAKKPPQPGRGECP*KKVPPNNSVLGK KKNNFPKKKKKKKK
7803	21704	A	7863	495	275	RSFFFFFFFFFFFFFLVARK*YYFL ATKKKKKKKKKKKKKKKKKK
7804	21705	A	7864	493	70	PLTASISLPVNWRYIAPHRVVKIK*KSV Y*KYLA*CLAQSKCPKSVCSSHSSP*LH FVPPPNPAEAMWTARQC*CIRGLGGKGT LCVAHTYNPCSCGG*GRRIV*AQEFKAS LGNSEPLILKKERKKESQAWWLIPIFI F
7805	21706	A	7865	67	385	VARTTGQHHAWLIFIFIIFVETGSHY VAQTSLEFLASSDPFTSVQGSTWITGVS YSWS*PGIAHTCNPSALGDRGERIT*GQ EFKRSLGNIVRPECLYKNNKNKNN
7806	21707	A	7866	454	0	LSFFFFPLGDRVILCCPG*SAVARSQLT VALNSWAQAIIILPQLHKHVPPCLANF*N FF*RQRYTMHLRHLVLNSWAQVILQPWPT CPTAAQA
7807	21708	A	7867	1619	698	PATSSSSSSSSSSSSSSAAA PPCRPPLRPPQPLAPHEVATLAPWRG*K PSFTSSGKRWLTSEPQTSGSCASCL*SM RASSPSSG*SKKKPPLPABAAA VCWRVRAP PYVAATTAYTMAVMGWMAFP WEVIWTRWRMMSQAIRPLQTWTNSVTAP

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						S
7808	21709	A	7868	52	187	LDFN*RRCLTKLPRLVLSWAQVILPPW PPKLLGLQV
7809	21710	A	7869	33	373	AGVQWRDLGLLQP PPPPGFKRFSCLSLPS GWDYRHAPPHLANFVVVLVEMGFHHVGQA GLKLPT*GDPPTLAYQSAGITGMSHRAR PGISVFHLKLHSFDPFKIIIFRPGAETMP S
7810	21711	A	7870	100	119	VFVEIVFPEGLLFSPCSFHLCGFRHLK AEF*FFVETGSMLPRLVSNSWAQVILPP WPPVVL*LQA
7811	21712	A	7871	471	446	LLMLPRLVLSWAQVILPPQPKVLGL* AYI
7812	21713	A	7872	449	33	FSFFFFFFLGLKDLFFSPRGGGGANS FFFPPPNFGKKGSAPPPLKSV*NPAAP TGVFFFFCGGGA
7813	21714	A	7873	334	41	PCPSLFFFFFFLRLQSLTLWPRLECSGVIS AHCNLCLPSSWDYK*HCPYLATGAPGLL SQSELSYVTL*LQESRPLCIPVDFMTFL PSLCFQSPNSTTL
7814	21715	A	7874	342	716	STGIFLFVCF*DGVSTLAQAGVQWPDLG SLQPSPPLRK*FSCLSLASSWDCRHVPP LLANYLYF*REGFTVLAMMVSFS*PCD PPTASQSAGITGVSHCAHPGMFFLNWP LKSCPSESGAAV
7815	21716	A	7875	454	215	PPPARCH*PP**TLVHAVEFKSHHYSLI SSTQGHKHCGRPGQPLPRKTRDLCLSLV LLTFPSLLSYDPAKSLSAINTQE
7816	21717	A	7876	492	176	PCGRGAGGNWGWPWHLRASASSRWAW ALQPHTRSSQPAGPTGPRO*GAQHLGQQ LLCSISHQALAAPPQGRAQDLQPAMPEP SPRPLPWAQO
7817	21718	A	7877	281	439	TWSIDL*HMAYFLFFSFLFFAFLSFSLL SFSILLFFAFLFL*VPSFSLFQRQSL
7818	21719	A	7878	507	338	LLRRLK*EGHLSPGGRGCKPRLHHCIP HWATE*EPFSKTINK*N*S*MKMVKIN
7819	21720	A	7879	55	298	PPCLANFLKFFL*RQSLPMLSRLFSNSW PQAVPLPRPPKRNQLYLYFGCCSQLCNP QHLCSKQHTFKILFDIEKHFRRLREH
7820	21721	A	7880	145	292	YFGGKQIYFICRDRISLC*PVLLTSLV SNSWPEAILPSQPPKVGLQ
7821	21722	A	7881	3	203	LSILPRLCECSGTFTAH*SFKLLGSRDSP TSAS*IAKTTGMRHHAQLRFFFFVPGGV CVCVCGCVYY
7822	21723	A	7882	324	211	AWWLMPVIPTL*EAKMGGSLEARSLRPV WAHNETPFLF
7823	21724	A	7883	2	124	QHFGLRLQVDHLRLGVHYQRGQHGETPS LLK*INVYIYMT
7824	21725	A	7884	367	141	KCWJDYRREPPRILAQGLEFLFNFCFEIVT EPPCPALAYF*NFL*RWSLATLPRLVLM SWPQAILPRWPPKALGLQE
7825	21726	A	7885	471	215	RGMCSVSHIFLCVGARYNISSARESLLKE FTECTERKHTHTRAHARTHARATHHTHTHT HTHTHTRV*NSRSQPYCRVHACSPAYLG G
7826	21727	A	7886	462	204	RHSS*LGLPKCWDYRHEPPHLACISSF* RKSDISLSDLGKCHKWWPQVVKSRA SVERDPCSGHFILEAGFGQLGA

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7827	21728	A	7887	409	152	PVFLALERPNQQDFLRPGVLQDQP*QNNK ISFFFFFKKKKYIYICMVVHAYNPSY SGG*GGRIT*AQKFKTSLNNTVRPHLYK K
7828	21729	A	7888	1	152	GVHVCCDCCKCICVCLCVVGVHECLCVCSK*VHMCHREGTIFGNISWEGD
7829	21730	A	7889	101	399	EIINIVFFFYFLPLLFFFWGGRFKKQLNPFLTNSWKKNHKTIGGKNPMGG*KKAITNPQKKGRKRSFSF*NKAQPTQGKNGQNSQGSKAVGALTAK
7830	21731	A	7890	478	142	KFSKKKKRGLNLFYKKKAFSKPPKPVFKKKKLLKNPFFKAKKQFFFKTPTRPLFR EKFPFPGPKKKKRPPGLFKNN*KGPPWPREKKRVKKKKKKVKSHYYNNHMPISVH
7831	21732	A	7891	497	320	PPWKFEFEFWFSP*LHKYYPYVCVCVCVCVCVCFDFRFFKPAPSPQSHFGINLSFLL
7832	21733	A	7892	217	23	IIPFKKFF*EMGSHAVT*ARVVQWHNHA SLQPETCGLKGFSHLTLPNSDCRSVPSSSARRQSH
7833	21734	A	7893	652	470	SSSSSSSSSSSSSSSSSSSSNSSSSQFERK TRSAPQVEGKGPNCFCLEAPPGLSLSFSCLNF*RSWDPGPPP*PHATPKTRAGGDLLCATHHRARHCTPGLRFPLFLAL
7834	21735	A	7894	25	178	GILFFWRDGGLVILHRLVSNFVSSDPSIASAQSWDYRCDCPPCPACPLIFW*LLKHSF*FFWRDGGLVILHRLVSNFVSSDPSIASAQSWDYRCDCPPCPACPLIFW
7835	21736	A	7895	104	451	IILSFMTTWMEAEDIMLSEISQTQTDRCMILLVESKNVNLRPGMMAHAYNPNSTLGG*GERIS*GQEFTESLVNIARHYFYKRNFKIKSKFKKIVRKSQKKNVRRWLLEARNKGRYG
7836	21737	A	7896	510	335	SCIVSLHRSWDLWHVPPFLANF*IFRKGGVLPCCPGWQIYTFQLQIPFLSITPVAFSG
7837	21738	A	7897	37	260	AGNSQNQGGGACSEPRWRHCTPA*ATERESVSKNKQTKFLCSVYFESTHFHCTNEATGAWGVEKVALGHAASW
7838	21739	A	7898	35	466	THTCGGIRKKLTKRNENQK*SQQKPSAPKEPEVKNKQKKTKNKPKKKKTPQIQPTKKPFRNPNLRVFTFFFVITQNKTPTRGRKTFQKVKLFPNNPCLGNKPQTLPRGGLOKKKKKIPFFYSHPPPLAQKKKATPWQNGLGFT
7839	21740	A	7899	494	149	PARLLSLHSYEVKSVLPKEEGLNNFFVQSVTAHPTSCIGLEEI*LLD
7840	21741	A	7900	494	114	GAEGGPLSKKKKNLLPDYHTGPMSSLSYLWPFLSNIGHTLTLMCATHTHTHTHTHTNH*LSRVGLPVLKPGQYQANGNRWSP*YNIKE*PRKTRVMPVTQQLRNIDGPMLTFWCSRNSFAMHVLGKL
7841	21742	A	7901	19	454	VWCNSSVSINTHTHTHTHTHTHTHTHTHTRSWVGWHMPIVLSTQEAEAGRLLGSGSLRIQRAMIVPLHSSLGNAARPVCV*HTGSCCVSQAGVQWHNHSSSLYPQTGPKQSSSLSR*DYRHVPPHPASCVCVRCVVCVVCVCVYGDRGITPH

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7842	21743	A	7902	3	393	DAWDPLNPLVNLFVSPKRNSSLDTRKKP CRESKKFNTHSRPKSSHQLRKRSSSTPT T*KIPNI*LNSSTPSRAKKRKKKKPKKK KK*KNSQKKKKPMRKTKKKGGGLLKKI LGGAKFFGGRKEKIFFF
7843	21744	A	7903	424	139	LFFFFFFF*G*GFVIFCYVGQVGL*LL TSGDLHISASQSAEIRGVSHHAPPPLSLI VVFISQCVGILNHVTVHLQYIQCSFVHHF LINQEKEIDIIK
7844	21745	A	7904	1	181	SQ*LY*LAAANLFILT*IGGQPGSYPFT IIGQQGASGLYLTTILILIPTICLIESKI LKWA
7845	21746	A	7905	3	281	HAYAHASATFFVSTCFHGLHDIMGSAFL TMCFIRQLIFHFTSKHHFGFQAAA*YWH FVDVV*LFLYVSIY**GAVLKEPWGGQS
7846	21747	A	7906	1	84	PTRPLTMLPRLVSTPGLKQSSQLSLPKC *DYRCEPACTAYSF*LTMLPRLVSTPGL KQSSQLSLPKC
7847	21748	A	7907	3	392	DPDNYTLANPLITLPHIKPE*YFLFAYT ILRSVPNKLGGRLALLSITLILATIIPIL HISKQQSIIFRPLSQSLY*LLAADLLFL T*IGGGPRSYSPFILIGQVAFVLYFTTIL ILIPTISLIGDRILKWA
7848	21749	A	7908	2	231	GCVEKGTLSHC*WECKLVQPLWKTWGF LKLKEKIDLPFDPAIPLLGIYPEENKFTL GPLHSVGRSSRKLPGYSPRV
7849	21750	A	7909	529	297	KIFIGAPVFCPPPHFFFLLIPPF*GVEKI FFSFFVLLPFGFFFLLFLGLFFFFFKLFF FFFFFFFKIPFFFSKKVGVGK
7850	21751	A	7910	410	61	FNNQAMQVVFPFPPLKIFFFP*RV*FLE GGWSNLSPPPK*GPSPKFPTRVL*GPP* GKN*NFGFPG*NWAPHRFF*RAAPFFF C*DRVLLPRLVSNS*AQVIHPPWPPKVL GLQA
7851	21752	A	7911	512	314	ANFC*LFIELTGFPHIGQAGLELLTSNNP PALASQIAAGTTGVNLRPCQDFSSYHSEN PLVYGSLYIA
7852	21753	A	7912	1	264	SSTTTLLLSRT*NKLT*LTPPLIPSTLLS LRGLPPPLTGFLPKWAKKKKKKKKKKKKK KRGGGGWKKKKPKGGGGGETSSKKDTFFK KGGP
7853	21754	A	7913	416	129	FFFFFFFAPPPIKTPFFFKREVYIY* ALSVFQSVCALKIYIHFRRISSQYPC*LG FFFFFFFFFFFFFLKGSQLLSSAYCVPG SVQGALHTLSH
7854	21755	A	7914	397	34	IFSNLFFPPQKKMFFPPPLKYFFFSFT ALFFFVLFPPFPFFPKKIFFFFNNPPKF FYPS*KKKFFFIPVYFLAPPFFF*AP PPFFFFFFFFFFFFFFFFFFFFFFFF FSVSKQPLFCLKI
7855	21756	A	7915	396	86	IFLSPRK*GFFSPPPP*KFFFSPKPLIF FGGGFPKFPPPKNNFFFQNPPGVFFYPP FKKKKKFFFPPPLNFGPPRVFF*RPPPFF FFFFFFFFFFFFFFFFFFFFFFFF
7856	21757	A	7916	351	112	SFFFFFFFPI*KYVFIYISLSSLIPFCKFLK GRECDIHFCDIQHSYSKYLGHFKCSTND RQMNK

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7857	21758	A	7917	445 -	2	FFFFFFF <del>FFFF</del> LSYF*LIHYARGIG ASPCYIMLGYNFSSFPCTISIAPGFNF YRLYFISHASADAWVDPRFLLDRYRRGIN
7858	21759	A	7918	2	407	PPPFQVYFNINWTFGGEGLLHIFPQK RFCFYKTYTNYIKTLFIKKKNIFSLAHI KMVPPRSIY*T <del>PPPPL</del> FFFFFFFLFFF FFFFFFF <del>FFFF</del> FL
7859	21760	A	7919	107	11	KMWYIYTLECY <del>S</del> ALKKKETILLFD <del>T</del> TL NLKD <del>I</del> MLSKISQHRKHTHT*FKT
7860	21761	A	7920	1	70	FFFF*AAESCSRIKC <del>G</del> TTIAQCNE <del>P</del> ELP GLSDPPTSAT*VAGTKGVCHHTQLRFIF IV*LSG <del>R</del> ILLQDQVQWHNHSSV
7861	21762	A	7921	123	260	GIQARKEPGAVAHAYKLSTLGG*GGWIT *GQELETSLVNVMVKC <del>L</del>
7862	21763	A	7922	184	399	LHLLM <del>R</del> VLK <del>KKKK</del> MG <del>G</del> PLYRS <del>P</del> RAKVN PALQR <del>LDS</del> LLIGS <del>R</del> ILSNL <del>G</del> IFGKAPHS WGG*AFFAATGLHGLHVIIGSTFLTIGF IRQLIFHFTSKHHFGFKADD*YWHFVDV A*LFLYDSIY* <del>Y</del> *GSRILSNLGIFGKAPH SWGGT <del>KWDN</del> PPDMKSS
7863	21764	A	7923	2	407	GRVGMI*EAFA <del>S</del> KRKVLIVEEPSINLE* LYGC <del>PPH</del> PLHTSNKKP <del>H</del> T <del>K</del> KKQ <del>K</del> KKKK KKKKKKKKKKKKKKKGG <del>G</del> LLKKLWG <del>G</del> PK NTGGKKKN <del>F</del> FWGGKKKNLGDFLKKNL FWGGGKIG <del>P</del> TP <del>P</del> Q <del>K</del> KNP <del>I</del> G <del>E</del> KKF
7864	21765	A	7924	1	398	PTR <del>RP</del> TRPTSSRSRA <del>PP</del> FFFFFF <del>FF</del> FFFFFFF <del>FF</del> FFFFFF <del>FF</del> FFFFFF <del>FF</del> FFFFFFF <del>FF</del> FFFFFF <del>FF</del> FFFFFF <del>FF</del> FFFFFFF <del>FF</del> NI <del>FF</del> FI <del>PP</del> KKNG <del>I</del> F <del>K</del> TLRGKGG
7865	21766	A	7925	2	335	NLT <del>FP</del> QHF <del>L</del> LSGM <del>P</del> RRYSD <del>P</del> DAYTT *NI <del>LSS</del> VG <del>S</del> FISL <del>T</del> AG <del>I</del> LI <del>I</del> FM <del>I</del> *EAFA SKR <del>KV</del> LIVEEPSINLE*LYGC <del>PP</del> YHTF E <del>E</del> EPSIKKKKKKKKKKKKKKKKKKKKKKG
7866	21767	A	7926	1	328	RTRGR <del>TR</del> GESNPSLR <del>I</del> ON <del>S</del> PC <del>H</del> L <del>S</del> H <del>P</del> IL KKKKKKKKKKKKKKKKKKKGG <del>G</del> PLKKNPG GAKI*PGPKKKNLFFKG <del>G</del> KK <del>T</del> PLGNFE KKPFFGGGKKRKKPQKK <del>T</del> KEKKF
7867	21768	A	7927	27	226	LSR*KM*NKSHIYSFEKKKKKKKKKKKK KKKKKKKKKKKKKKKKKQKKENRP <del>K</del> NGDSEN GHPKSK <del>I</del> F <del>W</del> L
7868	21769	A	7928	398	2	GGGGGP <del>G</del> GG <del>R</del> GP**NPHKKEGRDPP <del>H</del> PK KKFFP <del>RRR</del> KNRG <del>GG</del> GREKSP <del>P</del> QKKKA <del>P</del> Q KKPGRGF <del>K</del> R <del>A</del> PQKK <del>K</del> TP <del>PP</del> PR <del>K</del> KG <del>G</del> PP KNFKKKGAPP <del>FFFF</del> FFFF <del>FFFF</del> FFFF <del>FFFF</del> FFLG <del>G</del> ILARTTTTNDMK <del>N</del> H <del>R</del>
7869	21770	A	7929	3	156	HASAHASAPVFV*SVLMTAV <del>LLL</del> SLPV LAAGVT <del>I</del> LLADR <del>I</del> RLNT <del>TF</del> FDPA
7870	21771	A	7930	405	249	ASAHASAPLFV*SVL <del>I</del> TA <del>V</del> LLV <del>L</del> SLPV AAGIT <del>I</del> LL <del>T</del> DR <del>N</del> LNT <del>TF</del> FDPA
7871	21772	A	7931	921 .	699	DHPGQHSEI <del>L</del> SLQKMKTMSQC <del>G</del> GAHL*S QVL <del>RRR</del> REDCL <del>S</del> PGSQSC <del>S</del> EL*SH <del>H</del> C <del>T</del> LACETE*DLVQOKKKF
7872	21773	A	7932	423	259	HDLGSLQPLPPGFR*SY <del>YL</del> C <del>L</del> PSW <del>D</del> YR CEPLRPAQR <del>G</del> RLMAAT <del>S</del> R <del>I</del> L <del>T</del> RS <del>K</del> GW
7873	21774	A	7933	395	35	PRVKRFSCFWLPSK <del>W</del> GP <del>R</del> PR <del>P</del> WP <del>G</del> YFC FFC*NGGSP <del>F</del> LP <del>G</del> GSWT <del>A</del> P <del>N</del> Y <del>S</del> PPP <del>A</del> P

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						QNLGVQALRPPGPPTFPFLIFPTKAPWS WPFGGGKKKKLSPKGHSERHLHHKYIR LLSQHGGM
7874	21775	A	7934	1	118	NF*IFCRDWGLALS PRQLSNSWPQVILP PQPPKVVLGLQA
7875	21776	A	7935	322	383	KKKTGLIKISTLCFVKNTFKKTKWQAPE RKKKVPIFI LSYKRPVFKIYKKLFPFCRK KIKKKIPPPGFTSFSCSLPSSWDYRHP PPCPVNFFC IYKNNGVSPG* PG
7876	21777	A	7936	3	131	GFH RGVQVGL*LLTLDGP PASASQSAGI AGLSHRSQPLTWSL
7877	21778	A	7937	334	146	HPQGLNI*NMVSSSGAKHSSRLSLPKW WDCRQEPPCPVIMFLKRGINHALYSPSR KLLHFL
7878	21779	A	7938	2	371	SEPGAGYNLLVGRF*SPSEKCSIGVGVT RFSRCCCLSPLSLTGKGNSLTPCASRVQ CLALLWL VQGVVLHPLSCTHCLALPSEM PVPQMEMQKSPIFCIADAGSCRPELF FGHGSSPQSKL
7879	21780	A	7939	2	95	R LNLGGGGCCEP* SCHCTPAWVTKRNSI SKK
7880	21781	A	7940	1	191	PTRPSQT PGLK*FSHLSLPKSWDYRCEP PC LAVILSIPQNSSMPSNIFAASYSS* F GLYSSRW
7881	21782	A	7941	127	383	SKDCVRIVLLRAQAKAGSYRTVNWC RPG AVAHTCNHSTLGSRGRIA*GHEFKTSL GNIVILPLYKKKKKKRGA RLKEPNLT P
7882	21783	A	7942	235	3	KN ILPGYFCFFLREK PPPP GLESLFSKK KKKKKLARHGVA PLLGRMR*EDRLRPGV OGCNELWWCHCTPAWATEQNP
7883	21784	A	7943	3	225	E HGSLYPPPTPGLKQSSYLSLLSR*D YR* AAPCPANFFIFNFL*REDLTMLLRLVSN SWTQAVLLPPKVVLGLLV
7884	21785	A	7944	2	232	TLLPDNL SQTIYPNKKKKKKKKKKKKKK KRGGP FKKKKF*TRGGGKKNNFRAPKI FFGGRVLKKGGKKPGEPTN
7885	21786	A	7945	394	41	WCRWLETWGAGGSGAV PPPPF PPPHSSS WD LALQSGASSPFSPGAVA HACNPSTL GGQGGWIT*VQE FETSLANMMKPHLFSK KG PTV AHPAKAH RAMWCTP THMHTQH VLHVL
7886	21787	A	7946	405	100	FFFSPRFSSSLFLFLSSFFFFFF FFFF FFFF STGFLVYWSPTH*SLPVPRIFF SYLWQTEVETMLGTE
7887	21788	A	7947	391	212	KEMQIMPAMR*HLTPVRMVITKKSKAKC WQGCEEKGT LAHSWWKCKGT AETGKLAG F
7888	21789	A	7948	106	301	IQLPITQLVWH SIYFMKKIRYRLG VVAH TYNPSTLGGQGGRIA*GQVF KTSLSNTA RQKKKKKKKG
7889	21790	A	7949	342	208	GLGAGTHTYNPSTLDN*GGWITSGQEF D TSLANMVKHHVVQTGQF
7890	21791	A	7950	391	21	RQGFPLPRLISNS*PKGSAHLSLPKCW EYRSEPPSLATWVYVTL SRHFCSTLLL GQ GR SKF EMKWE SRLEG LLA KVSSLRSSYC SSLRILGLEILLSP LLFFLETGSGSVSQ AGVQPLCPGLK

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7891	21792	A	7951	146	355	ENIRQTQNEDDVVIKSSNETVFCKNIIIS LGVAHACNPSPPL*GQGRRIT*AMEF*T SLDNIARPCLYQK
7892	21793	A	7952	289	327	KGIPPLPPRKLKDKGPFCCCCFLKRESLF LP*FWKNGCRGPPPLFFFFFFLRSVSLLP RLVSNSWP*VILLPQPPPVLRLQA
7893	21794	A	7953	861	586	DRVRSVAQARLQWHDLGSLOPPPPGF*Q FSCLSLSSWDYRRMHTWPVF*WRWGF TCVAQAGLDLSSDNPPALASQSARIIG ESCVVLLK
7894	21795	A	7954	402	52	PRKVSI*PHDLPASASQNAGITGVSHR TRPSFNFSYIETAITETRKSLQPSPGMN *SLPSGMVGFKPHSFHHSANFCEALAVQ QTLGEVPGHAPLSPPRQEPRVCPCVKVCL KTALK
7895	21796	A	7955	259	3	YNTKVLSPFPILL*TFLKHLWLGAVARAF NPSTLGGGGGRIA*GQEFTSLGNIERC RLYKNLKLFLESGLFLMAWRGAKRVRTR G
7896	21797	A	7956	171	386	LPIRLFSLVFTTIEKSRRPMVAHTCNLS TLEG*SGWIT*AQEFETSLGNMAKLSLP KIQESASLITRSQNK
7897	21798	A	7957	397	283	PQPLPPGLKQFSCSLSPKC*DYRRDSAR PAKKNPTFNK
7898	21799	A	7958	169	324	GTHRVEMCSSQWLGVVAHACDPSPLGGQV RKIT*AQEGTSLGNIGRPCLYIK
7899	21800	A	7959	290	397	DCSSCCSPLKGR*RG*AQWLTPVIPALW EAEAGGS
7900	21801	A	7960	496	298	LSKTGSLYVAQSVVYWLFTGTIMVHDSL KLLCSSSSPPVSAS*VAGTTGAHRCCLEV TTFQPDVYRL
7901	21802	A	7961	404	174	PGPKQKGSFF*KKKKKKKEJDHILSHKAN LNKC*RIKII*TMLSDQNEIKLEIIIKR QLLKETLFLEMKKYTIRKLS
7902	21803	A	7962	25	99	PGLFLSS*HQVILLPPPKVLGLQL
7903	21804	A	7963	436	106	GGGKSPPPPGNWAPPGNPGEPLFF*KKKK KNPGGGGGRRFPFFFFPPGGRKKGVYPGGG GFYLTNFPPPPPPWGKKKNFFFKKKKKK KKKGRIAICYYIIFITSINFKKKAIFI
7904	21805	A	7964	212	395	ERERKERDRDGGEREREREREEREEGRKKHG GR*GGREGERHRPRGAEDPDAGRATDK RTGAL
7905	21806	A	7965	344	345	FSDCYKRSSCASWTWYTRLAHHQPPARP GAAPSPRKRWVDFAVNRNFPSSRRHPCAT PRPAPGATGRPSRVPKSTAFTQMLTQPR DPHLPLPIPPLSQPPPSP*PAPLVMR
7906	21807	A	7966	397	298	RGFTMLPLRVLNSRTQVI*LPWPPTVLG SLSIF
7907	21808	A	7967	92	268	IKMSLCPNFFFFFFKKQNVGPAGAYPCN PTILGGQGRKIT*GQDLKTTLVNMGKPH FY
7908	21809	A	7968	257	107	RTHHTHHTHHTHHTHHTHHTHHTHHTCENSKT TKNIANNCS*LESQRNNNGKCTYAKF
7909	21810	A	7969	413	12	PPPPPLLTWPWCFFPQIL*PVGHSAPPL FK*LKIIPRPFFFPPPPKGIGAPPPKIFF PPGFLSPLPPFVKLPPGEKILFPPPKKKKY PPPPQGS*SF*PPPPPFFFFFFFSTSAK KSKKNFLFIFSPFFNPKYINT

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7910	21811	A	7970	399	212	TGVQWSNHSSLQSQTPLKRLFLLLILS IWDYGCMPYPLSFKN*FCTKGGSCYVAE ADVNIL
7911	21812	A	7971	584	424	RPRRENRLNPAGGGCSEPRSRYCTPAWV TE*NSVSNRNKTQNQPPIFFSCKQFD
7912	21813	A	7972	105	1	PSMPQLSHL*NGILGRVRWLTPVIPALW EAETGRS
7913	21814	A	7973	363	28	SSSLGGHPQLWFHTLKLRPVTVSYA*NK LCDKIEKKLFFTIALHNKFRLKKLTRDV KILFNNK*IKKEGPNEF*NILCLWIERI NINKVPYPSPSKVMYRSNTLPIEAVFKSQ
7914	21815	A	7974	404	250	FFFFW*R*GFTMLPRLVLNSWTQAIHPP ALASQSAGITGMSSHQAQPLSIIF
7915	21816	A	7975	2	60	FSCLGLPFCWDYRHAPPHLANFCRDGV NY*PQVIHLPQLPKVLGL*ACTTPG
7916	21817	A	7976	325	81	KTIHSLLFGQFLLLQPLLSPSPIPHAPP TPHLFLLLLFCF*FFK*RQGKQGLTTL PKLISNSYSQVTLLPQPPKVLGFQA
7917	21818	A	7977	406	282	QWRDLGLSLQPPPTPWFK*FSSLSLPNSWE TKAGRSREPGGD
7918	21819	A	7978	382	221	DCIISASYLQKNFFFFLGDKVLLCHPGW SAVA*S*LTVTTSKRVHFYSSEISLY
7919	21820	A	7979	423	29	FLW*RRGFTSLPRLVSNFWAQGICLCPWL PKVGLQ
7920	21821	A	7980	3	238	SLAFFVETGSHFVA*AGLELLSSNSPA LASQSAEITGVSHHTQPE*GYSHM*PQY PYQLRFNSDTIILSNVLFPVNF
7921	21822	A	7981	324	128	WLSVSPYTTFELSLLVGYEFVIHDVI*TL IFVVVVVVSVLCFLWFFLVCVMVFVFFC CCFLSVFCI
7922	21823	A	7982	1	86	NLTMLPRLVSNSWAQAICLSPPKVGLG *AQAICLSPPKVGL
7923	21824	A	7983	1	137	RPANFCIFFVETEFCVQAQAGLELLGSG DPPTSASQGAGTTGMSH*D*PANFCIFF VETEFCVQAQAGLELLGSGDPPTSASQG AGTTGMSH
7924	21825	A	7984	2	277	PRVRSVQRVIYQYV*NLOIHPFDSTNL GIYLTDILPHVWNNDNMYKVFAAVSFVIA KY*NPCLTRRQCNCNLWPIHAMEYYVTIK KNEDGRA
7925	21826	A	7985	211	42	GPQKWPRPGPGENLGGFFFFFFCRDDGL TMLPRLALNS*VHAILPPQPRKVPGLWV
7926	21827	A	7986	409	183	LLRLK*SSHLSLPKWWDYRCCEPPCPAIF FKRKQILKESFPGENTCCHLFNSLEVLK NKRTCTYNFPNTLAVLKNM
7927	21828	A	7987	2	194	RFFETQSRLLQQPPPQLK*SSHLSLQSS WDYRHVPPCLANFFLFWYFLQGQGFAFL LKLIKFLFK
7928	21829	A	7988	483	209	SSPSLGNFCIPSSGGVSPCWPGWFQTPD LVIWPPGPPSLVFFFFFFRDEGLSMILLR LTLNF*AQVILLPQLPE*LGLQADRQVP LYPAEVF
7929	21830	A	7989	164	29	KFWFWLGTVAHACNPSILGSQGRRIA*A QELEPSLGNEGRPCLYK
7930	21831	A	7990	3	474	PTRAPLRAPFETIVQEEEFSKHHFGFEA AA*YWHFVDVV*LFLYVSIY**GSPPPP PKILIKKNGAETKKFFF
7931	21832	A	7991	469	323	VETGLHHVAQDGLELPTSGDSPASASQN

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						IGITGVSHHA*PDFTFLEQF
7932	21833	A	7992	469	13	KGDTVSSSDSSPSCGGLFPGAS*LLCL FTQALAMVGARRPFSMLPCSLISDCCAS NERGSVGMGPSKPGVGYSLLVCRWLRL EKRTIKVGVTFRSRCRLSQLPLARKGNS LTPCVFWVRHCFGSHSVGCTHCPAPAVR QAPVK
7933	21834	A	7993	15	439	IASGRPFSIKFFLVAITFLFDLEIALL LPLP*ALQTTNLPLIVMSSLLLIIILAL SLAYE*LQKGLD*TEPNKKKKNNKKKQE KKKKKKKTKTKGGGLLKKILGGAPIWL GGKNMFFFFWGEGKTPGGFLGENLFLG GGK
7934	21835	A	7994	392	186	YFYIINNNFFFKKIFI**IIFFFLKKFL *YSPKKVFFLFF*IFFFFFPSSSLFLFF SSSSPFFFFFFFSSSSSSSSSSSSFLRG
7935	21836	A	7995	11	386	TWEVEAVS*DHAIALQPGQQE*NAISK KKMTGRMFIEVSFIASSWKQLKCS*TGE MKSLWYIHIIIEYYLTIKENKVLEHEV SRLTLIDTGRERSKTKEYTLYNPIYTNL RIAKLSGCGGSHL
7936	21837	A	7996	3	186	DSFCF*RQSCSITQAGVQWGDRGSL*PQ SPGLKRSSCFSLPKHWDHRDEPLHPAGV AVLN
7937	21838	A	7997	316	649	RDHSFFFEMESRSVAQAGVQWHDLGSLQ ALSSGFMPFSCLSLPSSWDYRHPPPCPA NFLYFLVEMGFQHVQGQNGLDLLTS*STR LGLPKWLGITGVSHWHPAQDGFFHHVG
7938	21839	A	7998	468	336	RRGFTMLARMVIS*PSDMPASASQSAG TTGVNHHIRIHRSLL
7939	21840	A	7999	464	283	TLCCGIGRPTNMKGNLLYSKSIGLNVS LKPKNRRNTQNNV*PNTWALQPSHVDI
7940	21841	A	8000	46	487	RQGRLSLQKFLLPFVQLCPAHRGGVYRG RQASLSCGGLHPVRVSQPLCLPT*VSAM AAAPHCPASLLPCSLISDCCASSEQGSVG VGPSPKGAGYNNLLVCCHLLRLLEKRSIRV GVSQFSRCHLSWLPLARKGNSRTPCTFR VRRCLAL
7941	21842	A	8001	295	1	TQPWGTKRKLPLKKKKNSGDREWRWL CNSVTILNATTMTSEWLPGTVTHTCNP KTSGG*GGEIA*TQEFKASLGNIA*SWLYKKILKISPLWWOT
7942	21843	A	8002	144	317	ELFYLKEMV*RPGPVAYACFPSTLGDRC GRIT*AQEFRTDLGNIARPCVYLRKKKK RG
7943	21844	A	8003	69	291	HCVWTMIFIVIKYFYLNPNQNNSMRYYYS HFMDKETDVQSD*MTC*RLGAVAHACNP STLGGRIA*GQEFKTSL
7944	21845	A	8004	3	176	IVAHSSLTPGLKQFSCFSLPSS*VYRNMLPRLANY*FFGTNRVSVLSCQGWS*TLAS LLGSSSSPASACQVAKSTGTCYHAWLII DFLVQTGSRCIKAHGHELCSCL
7945	21846	A	8005	419	178	NPPPKLFLSSSSSPLPHLNWGTGFF PPPPF*NPPPEFNFGAPKKKKLSPRA EKLVPFKGPPPPFFFFFF
7946	21847	A	8006	429	225	QPLPPRFK*FFCLSLPRR*GHRHRPPHP FNFFFF*YFLRWFSVLVAQAGVQCMLDS IYLINEFWLLDF

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7947	21848	A	8007	756	224	PPRHQPQHVPPPLLHFSTPSAPPKSHAAAPNSNPPQAHAPPAPRAHSPPPPP RGATPPFPFFFFFSFLAAVGAPIFPREP LLPSSSSFFFFP*IGEPPGFSPPPLKT RPPK*N*GPPKKKNFFPPRPNWFL*K GPPPF*****FLRQSFILVAQAGVHKTRLHLKKKSN
7948	21849	A	8008	170	559	SSHSLSPQSSWDYRSGMVAHTCNPMSLGG QDGRLT*AQKFQTSLGNIVRCHFYFKKY FKNKNIFFYSPFINTNPKKKKKGAVLK NQSLSLRPAGKVLVFLWGHLIQFRGRPRFK NGGTGKPGGLPNLLAPR
7949	21850	A	8009	1	662	RTRRTRSWVWYMPVPLPLSHYGEAGESLGP *KWMVD*APIHALSTLGDKMTLPDIKK KNGETVANTSPLSTTAKPAKLFKLAKAKD QLMRDLFLPKTPKKPQMSTGLDARSKRW LKIIWRRHGIWPLKNIGPTEDVQASAHG GVEENMTSDIEIPEAKHDHRPTEDVQVS AHGGVEENITSDEISEAKHDHHLVEDL SESLSVCLLEDFTMTIGSQWKPICLS
7950	21851	A	8010	377	2	NNNNNNNNWWGFFFFLPGPGFKVBF*IF PFFFPRNPPPF*FFLGVFLFFFKK*IFFF PFSIRFCFFFKKFFFFLILFFFF*EPFF FFFVYVFDFFFSFILYIFFFVYFSLPFT VLIISLIYHFAPA
7951	21852	A	8011	1	363	PTRPLF**RGCFTMLPRLILNSWPQVIC PPRPPKVLGLQT
7952	21853	A	8012	278	39	XXXXFFLSPPXFLIFFFFFFFFFNFFF FFFPPPPPPPPPPPPPPPPPPPPPP FH*DQ*FSNFDFTPFTPTLISNII
7953	21854	A	8013	79	412	MNECILGKGKDGGFFEQCENLGLC*FL KVP*DSDIWLGAVALAHAYNPSTLEGQGER ST*AQEFKTRLGNMTRPCLYQKHTHKKK TKKKPHPGLGWGAWGPTYLGGVGTKIT
7954	21855	A	8014	277	19	FGNIHNFFLIGRSRSVTQAGGQWCNHSSL *PQTPVLKQSSHLSLPSWEIEAAVSQV RITALQPGRQSKTLPGNNSGPVLRADARR SI
7955	21856	A	8015	1	130	ARIVSIS*PCDLPASASQSAGITGISHH TQLAHNTLKAAPTLE
7956	21857	A	8016	4	417	RLMPPHLANFLFF*RHGFTYVAQVGLKL LGSNDPSASSTSQSTGTIDVSHCTQPHLL KSSHSTFPLKTLDSMATNCWSDKVHLYP TACRALLPCPLPSACFFSLSQVPSVFTC CVPATLTITLLPLLRAFEHVTLCPLF
7957	21858	A	8017	388	158	CVTWASNINWCIFPLS*INSHLCNEII VLI*GEIYNVCISIYLCIYMCVCIYISV CVCVCIYVH*TPYLIHKCLL
7958	21859	A	8018	154	382	GIKRPGAVAHNCNPSTLGG*GKWIG*AQ EFKTS PGNMVKPQIYLKKKKKGAVLK DPSLRPRAGKVIVFFWGPLI
7959	21860	A	8019	396	237	FFFFFFW*G*GFTMLPRLVSNSWAQVIH LPWPPPKALGLQVRTMVGLRLANF
7960	21861	A	8020	412	168	GNLLGSPLPGNVCNKPFILF*KKK*SL AVLPKLVLSNFWP*MILPPWPPKI*GVQA RAPPPSQLKKKKSSHFVNHSVNSL
7961	21862	A	8021	1	124	TRFLHVQSAGL*LLTSGDLPASASQSAD YIFIISPAAKIIFL

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7962	21863	A	8022	3	200	HLSPYFYFKDRVALCHPGWSAVVQ*PI VTSIFWSSC*KLTSVVRRRPSWLTR*N PVSTKNTKN
7963	21864	A	8023	3	132	FLFFFQF*FMRLGLAMLPMLGMNSWA*V ILLPQPPEWLGLQAA
7964	21865	A	8024	3	187	VGQAGLEPPPTSGDLPASASQSAEITRMS HRAOTK*DFIGSFSEEFSS
7965	21866	A	8025	405	231	SDKWIKKMRYIHTTEYY*ALKRKEILTH ATTWLNLLENILLSEISQSPKHRYYVIPLT
7966	21867	A	8026	175	382	GKRIFPPYPPPQQEGGKTGPPQTPGLFFFF LKKK*PGGLGGARFSPLLGGVGVRKNSFT LKGGGAINLKGPPLSLPPGGKRWAPPQKK KKKGQAWWLMPIPALWEAEAGRS
7967	21868	A	8027	83	374	GDQVWWLMHACNPSTLGGQCGRITWDRE FETSLANIFFPISTKKKKKKKKKKKKKKKK KKFKNSPRAGKEIFF
7968	21869	A	8028	382	148	SPHCSLDLVGLKQSSHLSLPST*DHRCV PPRLAIFSFAFLFFWEATTTKATMLP RLVLNS*AQAIILLPQPLKVRL
7969	21870	A	8029	88	208	SGSV*ENNPPLSWAWWLQSIIPATQEAEV GRILEPRSSRSA
7970	21871	A	8030	1	283	NKSRIKKAIKMTKEKMKEKIEMMKLMNQL PNGEHHAMIQMNMKIEMKGRMKIKE*DK ESDKDDRKDEREDRDEDETDEPTPERRTS RDDSDDDEDRDEGKNEDEKRKDDSKDDDE ADEDTDQDDYDPMDAHAKAADDEDDDED EVAEQMTKKKKKKKKKKKKKK**KDDRK DEREDRDEDTDEPTPERRTSRDDSDDE DRDEGKNEDEKRKDDSKDDDEADEDTDQD DYDPMDAHAKAADDEDDDEDDEVAE
7971	21872	A	8031	2	139	LQTLPLTIAF**LLASLANLALPPTINL LGELSAQFAVIGMYILY
7972	21873	A	8032	80	324	YLHFYFFFVR*KLMGLDTVAHTYNPSTLG DPERRIA*A*EFKTSLGNNMVKPCIFYKKKK KKKKKKKKKKKKKKKKKKKKKKKKKKKKK
7973	21874	A	8033	299	158	GNQPGASAHTCNPSTLVGQGGRII*AQE FKASLGNNMVKHLYQKHKN
7974	21875	A	8034	416	60	AQWLTSIIPIPPL*EAEVGGFFEPRLSPA WATE
7975	21876	A	8035	398	271	FYFL*DEVSLLPRLVSNSTPAILPPWP PKVPGRLHEPPRPA
7976	21877	A	8036	385	151	FLYFL*RLGLTLLPQLVSNISSSDPPT* ASEASAGITGVSNH AHLRICILTRLPGNS SH*NVRRAGLGDTOQSSALIPPG
7977	21878	A	8037	3	406	PASAS*VAGITGTHHHQAQLIFVFLVETG FLFFFFWAVFLFFFKTKNGPPGQQLFFFF APPALGGGDFFGQGATFSPKGLGVILGET RGGA PAPKKLGAKKEPSHLGGGAQNLPKPRGQKGFGFYFYFLARDFFLG
7978	21879	A	8038	428	20	LANQ*WKPPSNPWETKISPKKKKGPPGQ GPPPLTPPLWEAPKARKLGS PWLPR*NPLFPQKPKFFGFGGGPPYSPLPQKLSPK NGVTPEVGPSHCKPKFPPSPPLGQK*T PFPQKKPKRLKRCMFHLHGSTFQSL
7979	21880	A	8039	3	194	QNKISQVWWYTPVILATWEAEGGESVEP GRQRlw*AKTAPLPHYSQDEKYLKASVDS

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						YCLISCH
7980	21881	A	8040	415	96	LEPL*KYFPILDIAKNIICDSWEEVKIST LTGV*KKLIPMLMDNFEAKTSMEKVTA DVVEIGELELEVEPADVTELLQSCAKLE GMRSCKFLWMSKESGFLRWIYSW
7981	21882	A	8041	413	254	PGFKQFSCLGFPKR*DYRKHKPPCPASKY FKINYLRLNIYRSLILKN
7982	21883	A	8042	409	102	GFFPGPFFFF*PPPPGVFP PPPPNFWF *GFPFFFFPLF*FFFRRGGPKKIWFPPFF LWPLPLFFFFFFFWPKKTTPKKARSLKIF FFLGPKKIPNPFFFFFFF
7983	21884	A	8043	414	153	GRGWATNFYFFLIIILK*FFFIFKKFFFFF HLFFFFFFF FFFFFFFF FFFFFFFFYKIF LFTLVLTCPTQTSCREAEPFDHKVCVSLK ML
7984	21885	A	8044	401	292	NYLPPQ*KKKYYQPQGPFRKPIKKSPPPC FFFFFFFFSPFPFLNIPPPQKGKFPPK KYFNFNPLFPPLFFLKPPPLFFF*GPKK KNLIFHPPSKKICPFKRGPP*FFFFFFF F
7985	21886	A	8045	370	14	TPPPPTKTPFFFFLYPPPWRKREGFF*KANMSSPPVWKKKIPPLPPYIYL*KGGSRYL AKLSLNKGSIYLSFCFPPLPPSLPLSL FERWGLTILPKLVLNWSAQMILLPWLPK VLGLKV
7986	21887	A	8046	395	268	PFFFF*ETGSCSIVQVGVQWLFTGTILV LISVGVLTCISIDL
7987	21888	A	8047	379	98	GPAHNSPPLGGESETPLGYPGKPRFF*K NKKINPARGPGPVVPPPPQG*AGKRPLP PRRGFQLTQNNGPPPPGGKKPPFQKK KKREPAIC
7988	21889	A	8048	369	177	RNTRGGPTFFFFFFFK*NLAIRSRLEC HGTLISAHCNFRLLGSSDSLPLTSNDIGQ INKSLFA
7989	21890	A	8049	1	128	ALGLVAHAYNPSTLGSQRGKIA*GREFG TSLGHRARPCLYKK
7990	21891	A	8050	166	163	PVHQGEQTTQDKCLR*STHLGLPKC*DYYRREPPCQASKLVPPTGILADSKHSKCQTM DSCFSNQLYKQR
7991	21892	A	8051	402	245	YFKSVCVQAQWLNTYNPSTLGG+DGWITC GQEFLRPWPMSGITGASHHAQPHFF
7992	21893	A	8052	404	268	QQLWRLRQRDCLNLGCGGCSEPRSCYCT PA*ATEPDVPSNKQINK
7993	21894	A	8053	1	154	GFLRVGQAGLELLTLRDLPTSASHSAGI AGVIYRAWPGEAYLFSG*WLRFT
7994	21895	A	8054	406	150	PKKKNNPCPPPEVKFDSDLKRAPLFFFFL EESCFVTQAGLECSGAILAHCNLCLVGS SDSPLSL*RWVGNSHFIFTSLLSVSPRS N
7995	21896	A	8055	1	125	TAVILIIFMI*EAFA SKRKVLIVEEPSI NLE*LYGCPPTH
7996	21897	A	8056	400	260	HMSPHLAFFFSFLFL*RLDMLPRLVSNS WPQAFQLLLLLPQVLGLQV
7997	21898	A	8057	396	263	FLQPGTVAHACNPSTFRGGLIT*AQEFK TSLGNKVRPCPLYKKQY
7998	21899	A	8058	402	211	FSCWWCTKPKAAG*FPAPWGPPFLNNPP GAGTNFPGPPRSGGFGSPPPPWPGPRRP CPNGIFFC

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7999	21900	A	8059	1	279	VLLYHPGWSAVVQSWLMO*TPSNADIWR IARGFKRSSHFSLSSWDHRHVTPLAN FFLIL*IWGLAMLSRLLPLRLRKPVLLD *APSPCGLI
8000	21901	A	8060	408	315	SLTMLPRIVFNS*AQAII LPWPPPVLGL QV
8001	21902	A	8061	198	2	RIQHVESNCHLEVEGGWAQWLTPSTLGG RGRMIS*AQEFTRLGNTVRPCFYKNLK SQPGMVVR
8002	21903	A	8062	3	294	GLSPTAAHPITAFTSQPLPSGLSVCRFL WAMCEQCPLPPIRPCCPRIIGPECALYT TSCLLHQLKREGF*KKKKKKKKKKKKKK KKKIF*WGGGKK
8003	21904	A	8063	197	184	IHDFLFFF*GRVSLCCPGWSAAAQSRLT AL*PGEALKETFYL*IRRSDWHKHAPLL PAPF*LFWVTLIITPSTHEVSSAVCSLLY VKSEQKCQ
8004	21905	A	8064	3	373	TSGSLAKRPADCLSAQPTTPSSLCGCSP VRVCITVPRCTHARAHTHTHTHTHTH SNHG*APGALYIQLQRGKVSHVPEKEK SDPETA*TKGG*HVTNPNGRQRSGEQEE HRICVGRC
8005	21906	A	8065	532	106	ENKPIHNLSINKYIGKILRDKALLYCPG WRAMQMS*LPVASNSWAPAI LLCPGFLS TWDYKRVPPQLVKIFS KKKKKNKPNTNILR PKCHTRNQDIYKRGKVGFLCSYCPPALL LLLSLLLLL LFSFSTRDSASGAGCSS LP
8006	21907	A	8066	411	130	PHAQLIFLRR*SLTVFPRVVSNSWPQAI LPPPPKVLGPQARAMVPSPPKLVLESIL RIPTSVIFFPLNLCSNIKLAIEIKEGCSA AFLFNQRFAN
8007	21908	A	8067	3	32	DAWADAWGSLTDEWVEKIWIHAMQYY SFEKREIL*YVRTCMNLEDTMVSEIRQS QRDDYCMIPHI*GRTRGVH
8008	21909	A	8068	410	116	STFNIQTWPGTVAH TYNPNTLEGQAGRI T*GQELETSLGNITRPNFLLFCQACPGQ GLSTVRMCGSIHYFVLPLRPLLKLDNR KSPFYHPVILPCYE
8009	21910	A	8069	158	289	DLCSSLRNIVRPQLYKK*KISQVRKKKK KKKKKKKKKKKKKKKKKKK
8010	21911	A	8070	388	1	APTPPCFLFKPFVLLGGPPFGKAFFQKFP GGGFFPSISGPKPPPRNPSLISKGKRV PSPQSPIMVPGAF*RPPPFPMLVMG*KIKI KIFLPPPPPFPKTPPALSPFFFFEAEFRS CWPGWNAVMRSRSLATS
8011	21912	A	8071	15	336	KLDKRYDRTGSPGTTHASGYLIEPLVAE ASYELILSLAFFFERRGLALLPRLEGS GVIVAHCTLKLGSGGPPASAS*VAGTA GMNNHEGHEPGLFEKQNSGFIF
8012	21913	A	8072	396	274	PHLHTWESSL*RQGLAMLSRLVSNSWPQ VILSPWPPPKVVVL
8013	21914	A	8073	189	54	NKPLGPGMVVQACNPTPLGGQQWIP*A PEFKISLGNLAKPCFY
8014	21915	A	8074	3	257	HAFVLLFETRSCLSLRLESSGAMIA YCR LEI LGSGDPLTSASQVAGTKGM*DDAWL RQVSNSWPQVILRLSHPHMFLFQFSLET
8015	21916	A	8075	1	119	TLPATWEAGAGGLLEPKSLRV*CVFTAT

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						VNSRTPAWAA
8016	21917	A	8076	232	266	LFPYCSGQWCGLGLPIIQGVQWHDHGSLQPRLPGLNQSSCLSLPKCWDYGREP*YLA*YQARYHGSALARQNQVFNIIRPGIMVHARSPSTLGG
8017	21918	A	8077	390	143	LGGLFLVFCPPAKKGFFPNPINLGTPRFFPPPFP*KPAPEINFGGPKKKKIPSPPPGVKFDPDKRPPPF*****FIRLLV
8018	21919	A	8078	424	144	LKNYIFFTFL*NRDRVSLCCPRLVLFNWAQEILLPWPPKVGLQAA
8019	21920	A	8079	182	45	VHKAGMVAHAYNPSTLRGRGGWIT*GQE FETSLASLDNMVKPRLC
8020	21921	A	8080	405	163	YFLEEMGFHHADQAGLELLTIGDPPGGM SHCTWLNLNVNLIQKPHRNIQNNV*PH ISGPVKLTHEGNHHNWHMSTQKHSP
8021	21922	A	8081	39	240	QSKTVSKKKRKIIIFCRYRVS*SPGFKQS SHLGLPKGWNYREPPHPASTFSQSFPVKDHFCSGVSS
8022	21923	A	8082	2	263	DCCVSSE*GSVGVGLSEPGAGYNLLVFR LLRPLEKRSIRVGGSRFSRYYLSQLPLARKGNSPTCKPQ
8023	21924	A	8083	1	248	SVGVPSEPGA*YNIILVCCLLRPLEQHS IRGGVSQFSKYRQSWLPLARKGNSPPTP* ASCGMRGPALLWLTLGLHPLSNKPQ
8024	21925	A	8084	3	255	HLSLPSSWDYKRMPPHLAN*****FLGKK GVLP*GQTGLEL*N*KNPPA*PPKGAGV KGTHRKP*NGGKGRFEKDTPGGPFL
8025	21926	A	8085	409	145	LRGPYKKNFSFQAPGRKIGSFKKAPPFF FFFF*GQSLCCPVGLSTGVIIAHCSLE LTSSSDPASSASRVAGTTGACHCS*VLO TFTF
8026	21927	A	8086	199	26	GFP PPPNKTETIF*RPPDFLNFFFFLVEMN LTLSLRLVSNPWAQAVLLPWPPKALGPQA
8027	21928	A	8087	222	3	SVGITGVSHHVLYFTLKGFLGRGAHSC NNSALGGRGGWIT*AQEFETSLGSVARH HLYKKYKNYPVAVVRL
8028	21929	A	8088	415	197	TILCFYHQNNSVFSSNPFLSL*IFIF*D RVSFCHPGWSAVVQSWLTVFPILCATVK YFTCQQYIIMIFALNS
8029	21930	A	8089	297	71	FIFPENKRPEVVAHACNTLRRGGGRIT *GQEEFKSLSNIARPHLYKTKTQNILSK YIQYLGFLQLTQIDLANIY
8030	21931	A	8090	185	415	PFGLKQSPHLTLLSS*DYKHTPPCRVNFFFLLGGFFFPKAGFNLGN*RNFLASPS KRAGMAGINNLAGPIFRFFFKK
8031	21932	A	8091	2	125	RKQASKKERKE*KK*RKKERKKERKKEP
8032	21933	A	8092	8	412	KGPQGTTLTCIFDLSYSSSLSHWSQSLC VAFLPECIFPHKPLCPACHFFFFQSWG LALLPKREYRGKIGVNGNLELLG*NNPP SGTSKIAEPAELFHHTHARP FNWIIKTD FPYIAQTGF*LRPSRNPSTLEV
8033	21934	A	8093	249	143	NIFAATWMRLETIILSEVTQG*KTKHQMFSLICGS
8034	21935	A	8094	3	280	PERWDYRHEPPGPASFT*LLLTVFNL*R KGLYVGQRGRQLLASSSLPAPASLSAGI

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						IRMSHCTPAWTVRPCY*INK*INGKDT IRQNLKKM
8035	21936	A	8095	404	16	QMGCFLFFLPSSKEVFFPPPIFFFYREFF FLFHFFFLDPRQY*LYFIIKKNIFLPSPF IFFLFJRVSPYIFFFFFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FFFFFFFF FWSMEL LSKAHQCISSSHGSC
8036	21937	A	8096	358	200	KSYFIFSLLTIFSHYFFLLFLKHLLATYY CFLIDCTLFFSFYCPFCCLFVLLSGRFP RSCL*TFH*RLYFSFPPIFNVQKLF*LSD ICFCCIYLFIYLFIYFETVFCSCCLGWS MMA*FNGMFKDRI
8037	21938	A	8097	2	132	KEEKKERKE*KKRKKERKKEKREKKRKR EGGRKEGKEGKNSST
8038	21939	A	8098	48	331	PGTWHACLGGEDILKWQTGRRAGSH RTSWIEPLETFLEAGGRLESPGKNY SRLGAVAHICIASTLGGRRQIT*GQEFT DTSLADFCST
8039	21940	A	8099	7	373	NGRLRRGFAMILARLVLNF*PRDPPT*AS QSAGITGMSSHARPTIESFIHYCWECKM E*PLCKLILYFHLFIFKRQKLGVHWCHH SLLQPPTPGLQRSFRLTPPSGWDYRRGP PCPANI*LII
8040	21941	A	8100	116	432	YLRNLFYQRQAFSPAITLENLMSAL*ESH TVAQAGVQWHNLGSLOPLPPRFKRFSCS LSPSSNIFAPLSYFFRNSSFTNISPSEI GPQITDPLFIKKKIKVSVMV
8041	21942	A	8101	361	138	FNLLGRKKKNFGLKEGESRRPPNPGPQ FFFFFLFFFFSG*RWGLTMLPRLVLNS WAQVILLPWPPKSLGLEV
8042	21943	A	8102	1	199	PTRPFVFLMEMEFYHIGQTALELLTSGN LPASASQSAGITGVSDR*LA*YLFFFHE LFCYFALLLI
8043	21944	A	8103	412	46	KGGSPPPPPPKIGRKGPNNPGDPFFFF SPFFFRGF*GSPFPK*KVLLVGFLPK PPFLPGWGNPPPPVGGSPPQSLQFFF FKKVFGWVFFFPLFFFFFFFSPFFLFFS ETESHHIAQA
8044	21945	A	8104	192	2	EETELSFFIIKKYLYPRNQKVCKRL*RRL GPVAHACTPSPLGGQREWITRSGVQDQP GQDGTP
8045	21946	A	8105	373	183	GGPF*FQYILILFDNFFFSSLSPFQSOD FFFFLLSSFFFFFFFIIINYFYFF
8046	21947	A	8106	373	281	SFKTAPPFFFFFFW*RLSLTMLPRMVSN SWAQVVLLPQPPKVLRL*ATQRKKHFRO EQI
8047	21948	A	8107	3	114	FLIFVHIGPNYVAQAGLELLSSDDPPAL ASQCAGITGMNHHARPYYL*TLNIPLP YDPEIFLLGIYPR*MKTIVHTKACT*FF ITPLFVIAKTKWPQPK*PSVILGLQA
8048	21949	A	8108	416	243	PGVFPFFFFNPPPEIIFWAPKKKYFP PPPPLNFVFFFKGPPPPFFFFFFF L
8049	21950	A	8109	2	211	SVTQAGVQWHVSLLQPRLPGLEQSSCLG L**CWDCGHEPWHLALVTTSKHTESCSL LCIPATFLGLVT
8050	21951	A	8110	172	28	HVVCFITSFFGFYFL*RQGLTKSPRLVP

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						NSWV*VILLPPPKVGLQAA
8051	21952	A	8111	2	225	QKSAKNFYHLSIYLSIYLSIYPSIYHLSIYLSIYLSIYLSSTYE*VIILEQWKWSNIKKGCL*CTIQTNCL*QLKE*VIRLIPKL*YKIKLPTCWSVHLNWFTLCNIISWYLKYIAML**RKLVCFA*FVVYNSNKLLITIKRIGH
8052	21953	A	8112	392	221	PFPKRESPPDKVNPPPPDIFGGGKTKKKTLANN*FPPKEEFFVFFFKKEDFF*NI VGNFKTPPSKI*AVCF*NPFVKKKKGAPKKKSFKNF
8053	21954	A	8113	369	112	IFFSTIYYFXHPFFFFPPPLFFTTPPLFFFLKKKKFFFFFFFFFFXXXFFFFXXXXFFFFFFFFFFFFFFFFFFFLAF*HVYSF
8054	21955	A	8114	418	248	KYYLPTPGY*NLIILLNGPPFFFFFF*D RVSPCCPRLP*TPRLTQSSCCLSLPRSWDHRCMPLRLVTF*FTFKLSHQSRLTLLTYTLAGTTLG
8055	21956	A	8115	229	78	SFKGAAPFFFF* *RQNLTMSPKLVSNSRPQAVLPWPWPKVLGLHRGGWIT
8056	21957	A	8116	356	66	PLFPFFYIKNFKKKFFFFQYFFFFPPFPKHYSHKDIFFFFIIKFFPSSSFSFPPFFALSSFFFFFFFHAF*FPVFFLYKIPMLYPQL
8057	21958	A	8117	212	81	ERLSHCSLNLPDSSNPPASAS*VAGTSGTHQLVMVVHAGSPRF
8058	21959	A	8118	367	2	GVFFFFFFSPAACKGVFFFHPFFLGPRFFFPPPPFFPLWFYFWGP*KKY*FPHPRGYEFFFF*GGPPHHFFFFFFFFFFFFFFF FFFYAEIGIVSPCYIMLGYNFSSFPCGTISPRVRPRV
8059	21960	A	8119	38	215	FFKSAFHHTRLIFNFFFLEKTGSHYVAQAGVELLG*SSPTTSAFEIGGITGLFLSFKN
8060	21961	A	8120	266	2	PQIFLFLFIFETRSHSITOVGVOWCDHSSLQPQNPGLKQSSLSS*DYRHTLTAPG*FCFL*RCGLAMFPMLVLSSWPQAVLKIHPCCGMC
8061	21962	A	8121	3	332	DAWADAWGHVPPCPANFVFLV*TGFLLHQAGLELPTLSDPPASASQSVFIYFLET ESHSPAWEETERDSVSQKKKKRGGRFKGSNFTSAGLQRFFMGPPKLISRAGV
8062	21963	A	8122	378	66	LFIPLPIREEVFCIPG*NWAPPGVLYN GRPPFFFLLLETVFLHAGQAGLELGGSDLPV SASQSVGITGMSHRVQPKLRIFVNI SFPFEIFCEIMLLVPLAQ
8063	21964	A	8123	2	316	ISMLIALLRRIITFRLPQLNGYI*KSTPYEC YECGFNPISPGRAPLFIEHHFLVDITFLLFDVQIALLPLP*ALQTGNLPLIVMPSLLLIIILALRLDYERLQNGSD
8064	21965	A	8124	331	14	ITSILLIIITF*LPQLNGYI*KSTPYEC GFDPISPARVPFSIKFFLVAITFLLFDLEIALLLPLP*ALQTGNLPLIVMSSL
8065	21966	A	8125	2	228	IIIITF*LPQLNGYIEKSTPVECGFDPIS PARVPFSIKFFLVAITFLLFDLEIALLLPLP*ALQTGNLPLIVMSSL
8066	21967	A	8126	451	200	KA*WNRFAILNVTKYT CESQEEVKIFTF

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						AGVVKLIPAHHTDDFVHFKTSVQEVTAD VAKIASLLELEVESEDVTE*LQSODKT
8067	21968	A	8127	2	396	LIVIINTLLALLLIIITF*LPQLSGYIE KSTPYECGFDPISPAPVPFISIKFFLVAI TFLLSDELIALLLPLP*ALQTTNLPLIG MSSLLLIIILASLAYER*LQKGKD*TES GEWEKLVKKEADKLKGGRP
8068	21969	A	8128	1	350	GTRGLQTLLPLIAF**LIASLANLALPP TINLLGELSVLVTTFS*SNITLLLTLGN ILVITALYSLYIFTTTQ*GSILTHHINNIK PSFTRENTLMFIHLSPILLSLNPDIIT GFSS
8069	21970	A	8129	375	1	LTCFSEHRPPPRANFFFSSRKTRAPFFLP GGFQIPGPNNFAPPPIFPNGGPPIPGLDPQ PGPILNFF*KSFVFPDPKFFFLLFFPPPI*N SGVFLPRNPVFPKTPNFLFFFSPFFPGD GVLLCHPGRPLPRA
8070	21971	A	8130	32	211	GIRHGFAMLPRLVLNSWPQAIIIPWPPK LLG*QAGVELLASSNPPALASQTAGMTG VSTRPPVLLPTLGTHLCDACLGSSL
8071	21972	A	8131	396	5	KYRDGPPPPGKFFFFFF*DGFSLCCPGW SOTSCP*SSCLPEG*DYRHEPPHMTLS SSY*CSQMOKCINKNCLGSCVVAAHCNL SPLGGRRITWGKKFETSLDNIVKNRLKK KKKIKIYQGGGDHPCIFTN
8072	21973	A	8132	347	34	KAGPVIPRGPQEEFFFFFPQDGILLCFP GWRRAVAKS*VTATSNWSAQAITGMLPPC PANF*KIS*RQSIISMFPRILVPNSWPQVI LPPQPK*LGLHVCLVPSLA
8073	21974	A	8133	102	270	DYRRTPPHLANFFYFL*ROILTVPMLV SNSRVQQAIIILQDFFSVQLKMGFLSVP
8074	21975	A	8134	338	47	FLSTQKESSLPLHTHTHTHTHTHSLLLTH HHGRGQERGKRGR*GG*WRTGTHSPHGP HCVRRLRKSRSPELGAQGGCSLIQPKI EDPGQSGGPREV
8075	21976	A	8135	68	467	SLLNRIPFCCLCLNSFDCCVFLGLLFEAG FCSVAQAGVWWYEHGSLQP*PRGLK*SF HLSLPKFWDYRNEPPHPFSCFKALNFK DYCDSGTVPCPFMKELSMLFHALTESF VLFIVMSKLITTKHLTIISNV
8076	21977	A	8136	500	355	FHHVGQAGIQQLTSGDPPA*ASQSAKIT GVSHRARPQTSLNKLPLSLR
8077	21978	A	8137	58	222	IYGYEGRGSVAGSLSSL*SATTDSLDY DYLQNWGPRFKKLADLYGSKDTFDDDS
8078	21979	A	8138	345	196	KGDQAQWLPGMVAHICNLSTLEGQGGR IT*AQKFETSLNTLRPPISFK
8079	21980	A	8139	500	355	FHHVGQAGIQQLTSGDPPA*ASQSAKIT GVSHRARPQTSLNKLPLSLR
8080	21981	A	8140	3	231	HASADAWGRNEWDCAVAHANPTTSGG* GGWIA*AQEFEFETSLCKIVKPHLSKKK KKKKNFSPGWGSPPCPTPLF
8081	21982	A	8141	416	26	ARIFPNNSFWPGQGGFPFPPLLEGPGG VIP*CQGVQARPAPPGEPRLFPKPKIV GGGGEPPLFPPPERRAGPQKCRPFGEGGF N*PKPRPCCPPGWGAQGGFVSKKKKRNE DSKIPILIGKYPVGIRNMA
8082	21983	A	8142	413	35	RGAGGGGSPPGPRYPSQQHLLRARTPTP FARSRGSFPGVGRSGWRGGLGC*SRERP

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						LPSLPPRALPRSGASSGPLDGGAQGPGR RERWAFLGGIRADARGCRAVTSPEPYRL PGAGAACARRR
8083	21984	A	8143	166	368	ENILWAAMVVLDCHPSTLGG*GGRIT*G QEFKTNLANIERPHLFFFFKRDSDLFA PRAEGGGPILF
8084	21985	A	8144	1700	621	DLDRHSQLQQGPACLTRCGEPILSHSEG SKIGSERESGEHSRHPAEAPPSVEVGSR RS*GQDS*GFGPGNGQDTRGPLSHAAPN WTPDPAAAVAAAGGTSLPPRGGGGI*RGR SHTARSGARVGSANAHARGGSGFSRHSG SHGCLRNQSPLRGKAGALCGSAWVGL* GSGLTSPRGRRERLRLMPGVAKGRPR*GN PRRGRGKQHGI PASGLPGRCWLGIKMST LQPRTRAPEELFVPQESSGSTPEKMLVS FHGSSLRNEATPRYSQQEEAGNGRWQQS LSLERWPWPWTSHPLGTPPLMPVAVARCC ILPGLWPPLSPPSGSASPVSQGPGLSL WPNAFKKKDDFPVRQGDTSWRSVS
8085	21986	A	8145	390	38	NTTFNIYFFYFFFFSLFIYFFFFFFF FFFFFFFFIFILIFIYSLLVFGVVWLGL GLALALLAKLFLVNSLCRRYRG*SLLYY AWL*FFIFPLRYYIYCARFQFLSPILYL GKWF
8086	21987	A	8146	20	187	KLTSTGRNPGRPTRPNF*VF*RDGDLI MLPLRVSNSPWLVNLLPWPPPKILGLQM
8087	21988	A	8147	417	64	VRPRVRPRVRPRIRKKKKKKKKKKKKKK KKKKKWGGGF*DFWGGEKGPPPLQKNDF LLFWGFFLKSFFFFCGGLFWGGPFFFFP PPPNFLGVGGKKKTFRLLCGPFSAFFGG EKN
8088	21989	A	8148	351	187	RLGTFYLSNIRFYLSITHGPPIPYIGRL TSONLPLLLLDLT*LEKLLPKKSQTYN
8089	21990	A	8149	465	60	PPHFWGPNPKKKNSQFFWAKKKKIFLGP *KMKVAKKGVVFWGRKKGFQRGGKKG*KG GQLFYPVLSQVILGGGQNHHGPPGKAGFGE NFFFQGQLGWAISRWLRTPLFLAGGGE DPKNFKPPPPIKTLGAGVKKK
8090	21991	A	8150	1	175	WDYRHVPYPYLANFFFVIFRGDKVSLCCP V*GPTTELKRSSCLGFP*GWDYRREPPHLA
8091	21992	A	8151	59	35	RWNNSRPRRPGLKFLTSGDLPASAGSAV ITDVSHHAWPETFFR*RA
8092	21993	A	8152	269	159	ARVEVSKKYIYIHTHTHTHTHTHHTHT HTYTTKKLPS*LFQVCKMEKFGRLLVQ
8093	21994	A	8153	1	256	PGPPPRFFFFFFF*TLKI RFIWRKQKTHNPKDGLHQDISQVISLQ ITNHFHRRYFCNTFTCIQERDINQSLFL F
8094	21995	A	8154	252	41	LIIPVILICIVFIVLQFKIFSVISLNKG FRNHFFIF**RWGLTMLPRLVSNSKAQV ILPPWPPKVLGLQV
8095	21996	A	8155	21	443	HELSLI*FISTLAETNRTPFDLVDGESE LVSGFSIEYAAGPFALFFIGEYTNIIII NTLTTTIFLGTTYDALSPELYTTYFVTK TLLLTCLVL*IRTAYPRFRYDQLIHLL* KNFLPLTLALLI*YVSIPITISSIPPQT
8096	21997	A	8156	2	205	LLHLMKHFNLEIQKAO*TRINLKRSTSIR

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						HVI INLSKAKHKG* ILKAVREKMLIMYK KPLVKLQVISN
8097	21998	A	8157	2	205	LLHLMKHFNLIEIQKAQ*TRINLKRSISR HVI INLSKAKHKG* ILKAVREKMLIMYK KPLVKLQVISN
8098	21999	A	8158	2	222	VYTWTGKARVFPGEF*LPVWIPTRHLK FYNEPIRDANESASAETENPQSSIIHPO DEQNDIRRTDKVTIHQ
8099	22000	A	8159	1	297	GFHHVGQSGLELLTSGDPLASTS*SAGI TGMSHHAWPLNCSCYGDGSFSWLKCPELTVA CWEEEGWRKLLMENEQGREAHQKLESV INFYIKDSMTKRKYK
8100	22001	A	8160	138	437	NEYDHFSITIKERRDFIVCVFFFFFSKKS LTGTQGGGPSYLEPPFLGNKEFSCLTFL GSWDNGGATTRLG* FFVFFRKKGVPSCPG PGWS*TPDLRKTPPSA
8101	22002	A	8161	330	148	QQSKTPFFFFFFFKKKKKYIYTICMVVHAY NPSYSGG*GGRIT*AQKFKTSLNNNTVRPHLYKK
8102	22003	A	8162	391	255	RPA PADF*FFFFYRLGLAVLPRLVWN SW PQATLLPQPLRVLGLQI
8103	22004	A	8163	131	3	HKVSLCYPG*SALMQS*LTVASNSWAQA ILQP*PPE*LGLOA
8104	22005	A	8164	97	440	NKGSLCPGGGRPGALSHPTARSRGSPGP TPQKTGNNGPPPTPVNLEFFEKGFTP VGQGGLKLRT*RSPPPSAPQKAGITGGS RRP GPPIQKKFLKTLLGETKWMMAKLIKTY LK
8105	22006	A	8165	541	295	FSQQKKKIFISTNLSHQESKIYICKEME SHSVIRLLEGSGAIMNHCSILKLPSSDP PASVS*SAGIIGVSQHLYNTFKKIF
8106	22007	A	8166	440	259	PPQKFFFFFFVKTGFRHV*AGFRLLD SSDDPPLAFQSVEITGMSPSARPMFGVF HSLR
8107	22008	A	8167	23	405	FRI CHILLRVHLLVYFIPSFTDNHLLSTS AMFLYNSNDVVIAQNVSGPFLGIIFRTFF FFFF LKGEFFFAPAQVGGQGGNLG*LNPPP PGLKGFSGSLTPPGGGNSGGPPNKP NFW IFKKGGGSTLWPRII
8108	22009	A	8168	23	388	PYFSCALPRHPPITTNLGPHLGMGAPWG QPSVAHHTLLFFFKL RD FCFVPRVEK LNWELESSLN PPLLGLKEFSCLTLWRTGN NGG PPPPPVIFCF*KKGGVYPWGPGGGE TPALKETPGL
8109	22010	A	8169	612	498	NIHFSLSFSHTHRHMHTHTHAAHPTYI RTP*DNVPQ
8110	22011	A	8170	2	288	VNL TFFFQHFLGLSGMPRRYSDYPDAYTT *NILSSVGSFISLTAVILIIIFMI*EAF ASKRKV LVEEPSINLE*LYIKKKKKKK KKKKKKKKKK
8111	22012	A	8171	381	101	QKSLQQPSNIATILEEVQVIFLGSPYHL QRWE MRLTKWLRLGLGAVAHA CNP STLG MGGWIA*AQELETSGDPPPSSNRQLFTG EHNNNDNKLI
8112	22013	A	8172	136	360	TKKHFGLLK**TKKHFGLLKKKKKKKK KKKKKKKKKKKKGGA FKKKKFFPRGGGK IFFF GAKPNKFGGGVLK TGGGKKPGVT KK

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8113	22014	A	8173	358	58	EKVSFFLKMCKSGIILLPCRLTLPGSTDSPASVCRMPAIAAGPRRHA*LVLVETGFRCGVGRAGLQPLTASDPPTSASPAAIADGVSFTQCSMVPIRVQ
8114	22015	A	8174	254	370	GLTVLPGLVSNWSAQVILLSWPPE*LRPQAYATGAGFLL
8115	22016	A	8175	48	269	FYVILCLRDRVLLCCLGWS*TLGLKLSSYLSLLSWDLQHVPPHSASCCLTF*VKACFFLKYKLRLKIYAKIM
8116	22017	A	8176	1	338	PTRPINTLALLITITF*LPQLNGYIEKSTPYECGFDPISPARVPDFSIKFVFLVAITFLLFDEIAALLPLP*ALQTTNLPLIAMSSLILLIILALGLAYE*LQKGID*AEF
8117	22018	A	8177	426	130	QSLDPPGNMVTLQLQN*KNPPP*GGAVFPPPGRLLGENPPGSKEQKRRPAPQGG*PRQPPSPKKKNADSEFSIFNLQPALLCKQYCIVLHALPNKILF
8118	22019	A	8178	396	244	KIHLLYICMCIIYIYVISRHYILR*HTHAHTYTHHTHHTHTPKNTKYTLW
8119	22020	A	8179	2	119	TRPGNWPGVVAHFYDPSTLGA*GELIT*GQEFTSSSLY
8120	22021	A	8180	2	80	FLPLTLALLI*HVSIPITISSIPPQT
8121	22022	A	8181	438	333	SPLGLRLRHYNCLNWGGKGCN*PKSCPCKPAWGTK
8122	22023	A	8182	393	19	IFFFFFFPSPAKFFFIFKKKRFPPLWGGVF*SPPPGFQKTPPPQKVGFSRVFPPIPDKKKFFGGGKYFFFKEPPPPPPIL*KGGAKISPPPPPGKKKNPFFLKGKGGKKKTPIFFFFPPKKIKN
8123	22024	A	8183	24	269	GSQQLVGF CFRDRVLLCHPGWSAVM*S*LTVAESTSWA*RIIHCSLLGSWEYRHTPPCL*NRNPQLTVKWRVKDHNNKKSHR
8124	22025	A	8184	154	361	WHNHDPQPTQTHGLKRSSHGLPSIWHYRHVPPRLANFLNLSFRQGLAMLPPTSVCHLLVFLSETLGFK
8125	22026	A	8185	228	337	RPGMVAHACIPEGILGGRRGWIT*GEKFE TSLANNVK
8126	22027	A	8186	314	127	DIQPKNEGEGEEEEQELWLGMTAHAYTPSTLGD*GGRIA*VQEFTCLGSLARPPSLQKNFKN
8127	22028	A	8187	10	420	TOEAEVAVNWDHATALQPGROSETPSPEKKKKKRGPWRGENFFPTPGGF*KDGGNKKTGFPPFKRDGPPPKNWTPWVFQKRGAPPPEPPPLGGALGREPLGGGGKGGVGETPPPPIFKNNNPEKKPHRGFNFFAF
8128	22029	A	8188	398	1	LKKKRPQTPFSPKIQF*KFPFPFPFKKSPFPKNNLKKKRAPGGPIFFFFFFYPLGLFKNPSPNLMGSPPPLFNPKN*KKPPLLKKGPGF*WPFFQKKPPFFFFWRQGFTVLPRHTPSCLVNFCIFCRDGI
8129	22030	A	8189	30	153	AWYVRREDHVSLLGG*GCGKPWLCHGTPAWVTEENPKGKIK
8130	22031	A	8190	206	45	HPSQNSLSKN*ERVSVCCPGWSAVAGSQLTAASTSQAQVILLPQPPE*LGLQA
8131	22032	A	8191	3	228	TCVCLCVCVYICDVCVGCVCVYIDEYIQ

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						IYRYIHTYIDITYTHI*IYIHTYIDTHMW VCVVIYIYIYRCMVGRET
8132	22033	A	8192	41	416	ICRVKEIASRPLLETHSLSLVELS*FCL TAQ*RNDFLALKHLTAVLYNLILHSSGF WSSLKSHFIFLAL*YYL**FI*SN*RRD LAVLPLRLVSNSWPQVILPPQPPKVLEIR YEPPSLALILFVN
8133	22034	A	8193	2	183	KRLSIWQKKVEGEGFQGMDVGPVSVAH CVSSSLEGGGGKIA*GQEFTILSNIVR PHLY
8134	22035	A	8194	2	465	AGVQWHDLGSLQSPPPGFK*FSSLSLPS SWDYRSAPPCCPADFCIFRRDWAGWGVGC GFHRVARAGLELLTSGDPPASAPGAGI AGMSHRTQRGQDNFASWRGGPQMSPSP PSCLFLQNTFSLKPSWVAPYPHASALGG GEYGGPPSPQPHLE
8135	22036	A	8195	397	149	LICLTDLPIRFLSLLALVFTVFNTKVKV KDLIKLGVVAAHTCNLNTLGG*GGRIA*A HEFETSLGNIVRAVI PVCCFSVILSR
8136	22037	A	8196	355	95	KKIMPTLCLKIPS*YRCEEIQLSLQSS CDHRHMPPHPPTNP*RQHLSMLRSLVLN SRPQAVLPHGPPKVGLQAPATAPGILS LF
8137	22038	A	8197	382	112	KTDGFKKGPSSPPPFFFFKSFAPS GEKAKPLKSQRGLCPPPDKDPPPGSG* TQDKGPPPPGQPPIFFFILKKGVCLFSRG GSKTFI
8138	22039	A	8198	32	361	ASRIGFILQEFLPVRVWTNNPSAGADGY NFLEKQKGTEKTCSVQAQAGAQWCHRNL L*P*TSELKOSSCLSLLSSWDYRMYFVL LGKQVTLILLIGKRALSVYPRDVVSLC
8139	22040	A	8199	1	314	INTLLALLLTTITF*LPQLSGYIEKSTP YECGFDPISPARVPFSIKFFLAATIFLL FDLKNALLLPLP*ALQTTNLPLIGMPSL LLIIILALSAYE*LQKGLY
8140	22041	A	8200	3	109	FTSKHHFGFEAAA*YWHFVDVV*LFLYV SIY**GS
8141	22042	A	8201	3	216	DAWAAVGHHHHTRLIF*IFVEIGSLCVSQ AGLEILDSSDPSSASQSAGIRGMHGA GQEHLFHRPIGKIK
8142	22043	A	8202	1	267	RIHTGEKPYKCEECGTGFKGPKSTLTTHK FFVYCREVAVLLNKCYSHLYPH*IIVNG SEADKREMCLLCIFFHPLAEEQENVENK RKYNP
8143	22044	A	8203	422	92	PLVFALPPKIGFAPTPSSSSPPPLFF FGPPVFPFFFFFNPPPFSSPPPKKKF PSPPPRGKIFPF*TPPPPFFFFFFFFFF FFFFFLFLYLYLFLC
8144	22045	A	8204	445	260	VCSPLFLIWVAPGFSPPPFLKNPPPNFF FGAPKKNNFPFFFFPA*NFFFILKGPPPLFF FFFFF
8145	22046	A	8205	103	248	GPGVVAHACNPSSLGG*GQWIA*AHEFK TSLSNAVRPISAKKKKGPF
8146	22047	A	8206	407	197	QLIFKFL*EQASHYVAQAGLELLGSGNP PASTSQSVKVITGMSHGAWLLAPTLRSTS LNVNSLSQLVLLPRP
8147	22048	A	8207	1	142	SCSVAQARV*FRDLGSLQPPPRFTPFS CTPAWETVRLHLRKKKKN

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8148	22049	A	8208	2	370	PEVFDYPN*FKNL*LHKTCTQ*L*AAIFVITKTWNQGCPLTGEWINKLEYIHTMDYLAIKINELANHMM*RTLKCILLSERS*SRKATYYMISIIRHPRKGKTIEIVQNSSCQGLGERQKGL
8149	22050	A	8209	363	108	KKPRVEACLSPGVGRERAKKER*KRERE RERERERERENEL*KLSLADLCIKNG*R EFFKEKRYVKRYAKILRVSGRKQKYGNV
8150	22051	A	8210	386	254	LNPGGGVCSEPRLCPCPTPAWIR*DSVS EKGKKKRKGPNSTATNF*ALSCNLDY LRCSMLKMQRQRKRKERTEVRFWQLHHN LTLGTV*LIVYQRE*RTTGFVAKYMLY TFS*PGSFPLRLRKCVEHVFVGYEPACSPL FPLIHNLHKAKC
8151	22052	A	8211	3	131	AHLFIAWFTEYFKPTVITYCSKKKIPFK MLLLIDSAPSYPRALMEMYKGMNVVFMH DNLTIFLWPMQ*VIFTS*SYYLRN*FC TIAIDSDSSDGSQSNLKIF*KGFTTL DAIKNICDS*EL
8152	22053	A	8212	86	286	WSIWECTVISVQLFHKPCTSFKNTSYWS GVMAYTNNLSTLGSQDPQIT*GQEFTES LANMVKSCLY
8153	22054	A	8213	393	344	SFPFSLSKWKFKNLVPSPGYFLFFLNK GFYFQGGFKILNSNYPPPLASQKGGI SGISPWPRALVFF*WRNLGPN*RTIVSP NYGLK
8154	22055	A	8214	3	313	QGLVLWHSHGLLQP*PPGLRRSSCFSLP CSWEHRCTPPHLANFLILCVVCVCVET GSHFVAQAGLELLGSSDPPLSISQKSWD YKV*AIIPRAKQNYLMLFY
8155	22056	A	8215	165	348	RPCPLFPEDLLTFSREGPGTMAHACNLS TLGGQGGGIA*GQEFTTLGNIVRPHLY FYLKK
8156	22057	A	8216	379	218	VFLVETGFLHVQAGLKLPTSGDPPASA SVSAGITGVSQKCRF*YNVIFFQKSSL NALPICSMLTMLGNLFSMFMPKFFTCS
8157	22058	A	8217	32	276	RYLPITAALFTIAKI*KQPKSSLLDKWI KKLCIYTMEYYSAALKVILTVVTWMNL VGFIPIGDINHIQAKYCMISLICGI
8158	22059	A	8218	171	2	KGVFGIGRLFFFLLDRWLCPEWSTVVQ SRLSATSAS*IQAIIPLQQPPEELGPLCP
8159	22060	A	8219	530	73	TKPTVGNSNSRSYINQTYFPSTLTFGGL MRLTIYHFFFLLVYYNPVRMVTPAYM*L LILFYSSSIRDLIIAKQPCLPNEGFSPH AC*TNAATLLFPYSI*YLGLPSFHLIFFV CFSFYFL*R*GLTMPPMLVLSSWPQVIL PPQPPKVLGLQ
8160	22061	A	8220	350	135	FFFSSQTGVAQNRRQ*RDHNSLQP*PPG LROQSSCLTLPCKWDYRCKPLCLASWIYF KDKVYTSTPVHTQEY
8161	22062	A	8221	185	331	PGMVAHAYNPNTLGG*GGKLT*AQEFT SLGNINSVPKKRRKRRKEMM
8162	22063	A	8222	73	232	YCSFKFITLTCLSWLGTVAHTCNPSTVE GGGGRIT*GWEFTTSLGNIVRSCLY
8163	22064	A	8223	418	211	AMPSLLTYLLTFIFCRKKKIFFYWGEFT MLS*LVLNSWTQVILPPWPAKVLVLPRL ALFYSLLVLFPSF
8164	22065	A	8224	227	33	ESHSTTQAGVQWHDHGSLQPQPPGMSLY

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						CH*CLRFWSWRPAEKPGWCSSLRFMELE SWGASDAF
8165	22066	A	8225	244	287	TDSPTSAFRSAGITSISHHTLPKSTF*I FCRAGGLAMLPLVLNLNSWPQVILPSQPP KALGSQA
8166	22067	A	8226	53	235	NNWKWQGVVAHTCNPTTLGG*GEWIT*GQ EFESTPANMAKIPPLVMFAFCFEETDNK SHTK
8167	22068	A	8227	275	25	GVLMFNFKFCI*QNSPFMLPGVVNLNSWI PAILPPQRPKVGLLQAWTILYKWYYGKE MWHEKIECEGTHDVLKSLKLTTTRRFKRHL
8168	22069	A	8228	386	211	QLKLPPPLKGKGNKLRRPP**KFFFFFFFQRQ GLTILPRLVSSSWHQMIFFPQPQPPEVLGL QA
8169	22070	A	8229	I	117	VFILFYF*DGLAMLPRLATNSWAQATILL PSAPKVQGLQA
8170	22071	A	8230	356	26	WHVHGSQQP*PPGLKQSFCFSLPSSWDE RCAPPHPINYFQICRDRVYKRWANMVIS PNPLVLVISQAGITSKIPCPGSEISTIF IFSHQLLLVRGVYPDMLVLQLQGKTCI
8171	22072	A	8231	3	188	FPSLRPA*IFFIYFFFLLKNKVFLCHPG WTQLLDPNWTQAAGLKQSSHLSLLSSLN FRGSA
8172	22073	A	8232	2	253	KLDYINC GTNLAQKCLFCLFGSLFFQR* GLTLLRLFMNSWPQAILLP*PLTVLGL QATMLGSQVPVFDLGITLCRCRGKLE
8173	22074	A	8233	373	65	PEKAGSCLELA FGLQM QHPWASTLPA ALTD PGLATVPHVSQFLKSHTHTHTHTH THTHTCTRTLLVLFL*EALTTTPLLRSI CKHRESACSLSLTWPLCC
8174	22075	A	8234	390	46	RVFKPG*NPP LVKA PAPPLFFGGV*GRSPKKKNPQGP GGGGGPPP GFHPPFLTPFFF IFLRREPPPF FRGG LG PPPPFKTPFF FFFF WVKG GKFLPQ KKKKKF FQ SISTR SVIHK
8175	22076	A	8235	387	216	OKLGVGLVPPGRVIVFFFFF FCC*GGGL TMLPRLVSN SWPLA ILLPQPPKVLGLQV
8176	22077	A	8236	1	201	RFFTIPQCFC PQFILSF*RRGLAVLPR LVLPNPWPQ AILPPQ PPELLGLQAHPTTL GPVFY SYCVRA
8177	22078	A	8237	399	229	SVGGG GLTMLPSWSQTPGLK*SSHLSLT KCWDYRPEPPPHLA HFSLN LQLYC HTKL S
8178	22079	A	8238	192	335	SHTLPHSSNF SYFW* RQGFAM LPRLV LN SWARAVC LPQSPKVLGLHA
8179	22080	A	8239	442	254	GRDRVLLFC PGWSQ TLGLK RSSCL GLPK HW D YRHEP PH PAENIKFCVWPTLYFYWP ALVQINLP*QLO GTECVACMC
8180	22081	A	8240	381	180	VLKLFFFCSH RGPTMLP RLVS NSGLK*SS HLGLPNCWD*RCEPWH PASLCL LTST FW PPTLICNIHK
8181	22082	A	8241	388	260	NAIPFYITKCCNP STLGG*GG*IT*GQE FENCLANMV KPC LY
8182	22083	A	8242	1	145	GFTILVRLVLNS*PLDPPALASQGAGIT GVSHCAQ LIYVQRSLQ LLW
8183	22084	A	8243	1	173	GLTVSQAGVQWCDHSSL*SQ TLGLKQSS SLSLPSSWDYKCKPQHQADRFFLMEFFQ M

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8184	22085	A	8244	202	327	TLFITIFF*R*GLAVLPRLVNLNSWPQV ILLLWPPRVLGLHV
8185	22086	A	8245	42	289	KEKRSIILFIFCRDGVLWLPLRDLINS WPKTIFPPWPPP*LALQAHTTIPRGGGS IILICIRDVKRERKQYAKSKNPEGET
8186	22087	A	8246	592	485	NIVSQAGVQWHNLGSLQPLPLGLKWFSC LSLSS*DYRHVPPCPANFCISVETRFC HVGQAGLELLASNNPPAPASQSTGITGV SPCTRPRVYVFLLWILANGPS*RAETLV NLATNQEDADSSLAPGLGSGHCF
8187	22088	A	8247	307	12	MCSPVFSPKQKNPLFLNFFFKEFLFFFFP GGRGQGHFGFLAPPPLPGLNKFLVLPFPG NGDTGKGPPARGNFFFFFFFGIFSRSDFV SPC*PGWSLIPDPD
8188	22089	A	8248	392	237	HYGQASLAPLTSGLPASAPQSAEVTV SHRAWPTVLI*SFS*KFNWV
8189	22090	A	8249	153	386	FFPGWPKPSLEPPPWLKGFPPPTLL GGGD*KRPPPPGNFCFFKKNGVSPLWE GWF*TSNLGNPLPSPPKRVGIT
8190	22091	A	8250	387	166	IETILDIAKNIHDSSWEVKISTLTRVWK N*IPTPMNDNFEGFKTSLEEVTVADVMGIA RELEVEPEHVIELLHDIS
8191	22092	A	8251	405	266	LFAIVK*NHPKCLLIYARINKMWHISI GWNIISLISKGMKFSYMFLTWMNLEVIM LSEISHSQKV*YMVPLA*GHLEKLNC PIKQQTPIPSSSSP
8192	22093	A	8252	379	201	PGANYACNPSTLGGSGWIA*AQELETS LSNMTPKPQPCSTPQCFLVNQLLQNLYP YFP
8193	22094	A	8253	78	311	LTLYFHTRKKKGLK*IFYFI*SILSQKD LKVGTGPAGAAHTYNPRTWGGWKGQLQAG KRIT*AQEFEETSLDNTVKTCL
8194	22095	A	8254	303	81	TPCAENFKLRKFHHIISLQRKMNYLIS FLYF**SHSLTILPRLVSNSWPQAILLP LPPKVPGLQVSATLPGI
8195	22096	A	8255	2	376	MGYNLVCHLLRPLEKRSSIRVGVT*FSG CPPSPLPLARKGYSLTPCASQVRQCLAL LWLTLGGLHPLSCPNCPTSPSVMNVPVQ LEMOKSPVFCVSHAGSCRLELFFLFGHLG TQSSLDSFFKKVI
8196	22097	A	8256	70	356	LIIAYNLTYDLWSKMFYVYLRKIYTLLH WVECSIYTCWV*FVYSMVSWNRIDSPGK KKTNIYDQLIFNKGAKSTKLKNSLFNK WGQDKIYSTYKK
8197	22098	A	8257	403	85	PFCPWFPVVFIPIPLRKSGTPPGPGEF PGPGFSNGGNPRPLKKSPKFSPGWGRGP LFPFPSRGV*AGNFLGPGRWRGPWAKFVP LPSCLGHKARFFFPKKKRRKIK
8198	22099	A	8258	249	2	YCEGDLGSYRPGVSKCMFSPRRDIRIM PWPGAVCYAYNLSTLGGRDGWIA*A*EF GTSILAYIVKPHLYTHHTHTHTHTHTMY
8199	22100	A	8259	2	189	IOCVCVTKSHFCHPGWSAVAOSWLTAAS TS*A*VDFSHLSLLNSWD*RRVTPRLVN LILFPS
8200	22101	A	8260	453	128	FFFFFLIETVSHDVP*AGLELLSSSHP LASAFQSAEITCVSHHAQPSSVSWLHS S
8201	22102	A	8261	420	79	KNPTFFFFFFFLIETVSHDVP*AGLELL

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						SSHPPLASAFQSAEITGVSHHAQPSSVS WLHSS
8202	22103	A	8262	1	262	NSRTERLGSWSOSHFKEMEAHFVVQSG VQWCDLGSLSRLPPLPGFK*FSCPILLSGW DYSQCRPCRTCSLIFMHSRSPSQPSEKK WTC
8203	22104	A	8263	321	100	SATKNYLLSRSQSFIGK*NNGLGAVAHAY NSSTSRLGLGGQIA*A*EFETS*GNMMRP HCYRKYKNLARHSTYSPR
8204	22105	A	8264	145	275	KPRDYSFFF*WKRDLMPLRPLASNSWTH AILPPWPVKVLRLQG
8205	22106	A	8265	73	351	SLCYRSFARCDRPKKGQHFSKSYSYQDAQ WARTLLSTIAQNNSAEHHLKTTDW*GAV AHACNPSTPQGRGGRIA*VQEIETSQGN TGRPHLYKK
8206	22107	A	8266	382	232	LVEITGFCHVGQAGLKLLTSGDPPASASQ SAGITGVSHCAWL*T*YS*DFQ
8207	22108	A	8267	397	130	IGQAGLKLTLTSGDLPTSASQTAGITGMS HRAWPTFSLIAR*NASFQVGHFSPKYQV GTLAKSLKCHQVRSDTLEFILCCRIIYE TLGKF
8208	22109	A	8268	309	97	DTWYRTRRKDHCTITETRIQSVRPLSPR *AITSRVTCTYTSR*PEANEEPKITFR HCDLFLPTLTDQLTL
8209	22110	A	8269	2	224	DSSGIPGSPTTRPPTTRPKQKLPDCPTVS LLGICIYDQRQ*SVFQRDICHSHMFITA LFTIVNIWKQT*HPLMDE
8210	22111	A	8270	374	2	TSWESARKPPPIHSHTLKGFFFFLFMF FF*NKICKDGSLTMLPRVVILNSWAEGIL LPRSPKVVGIQELATQRRASILLCNPTY ACGIFQHVVVNVKLLMKQCPFCPAAPTK TQNFFPRV
8211	22112	A	8271	1	379	PTSASQVAGTTGTHHHIVLFFFFGIFEK KGVPFPSPGGF*TPKPKPPPGFGPKRGG KKGGGPPPARGMGSVGFYPPPQPKFFV LIQQILFKGRTLDFKKRAPPFPPFSLF LPKHTPSFWIKWD
8212	22113	A	8272	80	401	AWGMRFCLLLYSCQYLISDIAHFSKAFF FWKREPPPAPQVKGQGPNL*WNPWLQG *RGFSGLTPKGCGNYGPPPPPPLIFFFL RKNFFPGWPGWSKTPDLRKPPC
8213	22114	A	8273	405	95	PPKRFWGSSKGFPQREKKLGSPTFPKKK KDFIYSYLSKSLKKE*INRPSAAAHTCN PSTLGGQGGRIT*GQRFKISLSNIGRPH LYEKIKNVKKLIKPKPNKL
8214	22115	A	8274	167	52	DREQRPGAMAHTCNPSTLGG*GGWITRF LANMVKLRLY
8215	22116	A	8275	276	23	KYVSSSRPGTVAHSCCKPSPLDGQGEWIA* VRKFKTILGNMMKPHILLFYKKLTFKNVK CIFKKYCATESRYVTKEKQKDRKKGTKE
8216	22117	A	8276	1	114	FTMLARMVWIS*PRDPPASASQSAGTTG VSHARPGLS
8217	22118	A	8277	2	87	TMLLRLFLNS*AQAVILPWWPPAVLGLQG
8218	22119	A	8278	357	347	SEGLALYQLEAFTVCDLRERGFGRDSL WPLITWAWRGGVFLLVQFQEVCRLALG SLSDPDVLLPESGGPTSASQSAGIIGVR DRAQPNCVFEIGSYSVTQAGVQ*HNHGS L*P*P

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8219	22120	A	8279	371	125	FFPKKNNEPPG*PPPKK*RPGKFTILAPS PPFPGGGEFYKLKRGVLKQKPGPPGVPK ILKTPPRLGKKNKPISPPPGQKKQNFF
8220	22121	A	8280	377	63	PPVFP PPPWGGQQGGGF*ARGLRTPWPTR ENPVFF*NPKN*PGGGGP*IPPPWPG* ALKFPLP PRGGVPLTKNIPPPPFRSHKR RVFPKKNLKKKKNPCLIESL
8221	22122	A	8281	2	284	LPK*VKNFVHAKICT*MFAAFLVITSS WKQPRYYSSIEKWINKLWHISAMEYYSS LKR*ELSSHEKT*KNFKCGSLSEKSQSE KDTWCLIPVI
8222	22123	A	8282	318	40	APRLSLLVVFMVVFIKRLDSSPGSRITWT NCFENHLCVCVCDCRFLLCQAREQWRVLG SPQSPSPKFKRFSCLSLPSSWDSRCKTP *PANFCGLC
8223	22124	A	8283	30	343	CYQKASHATEKSFMR*RVNPCSKLCCCC KILPQPQQPSAVITLISQQNKKKKKKKK KKKKKKKKKKKKDGGGALKKKKIFSPR GGRIFFFFFWAKNNNLGGGL
8224	22125	A	8284	163	392	FVVLYNFSVIYSISDPCWYKEQLCKSVF SFLSS*SLLDEPNPNSPANSQAAQLYQE NKREYEKRVSAIVEQSWNDS
8225	22126	A	8285	406	63	KKKLILAKPGVNVNLDLKRAPPFFFFF RHGVPLCCPGWSKTPPEPK**SSCLSLWSS WDYRREPLCLAYSPVLNITHLSSPNVKL CRDSQESYDPIIMMMVIIITEGGMICGV IM
8226	22127	A	8286	1	322	TNTLLALLLFIITF*LPQLNGYVEKSTP YECGLDPISPARVPFSIKFLGAITFL FDLEIALLLPLP*ALQTTNLPLIGMSAL LLIIILALRLAYE*LLKGKD*AE
8227	22128	A	8287	395	181	HGSLLHPGTGQLQQFSRRLSLPSSWGYRH PPCLANF*IFCRGGVSLCCLGSVEGLE CQARLPVLVRAELGLD
8228	22129	A	8288	3	246	SSTLSFPSG*DYRHVPPCPANFFFFWIL EKTPFCFVPOQGGFNLA*TSPLNPPPWA SKGAKITGGTPGMGLINLANGRPP
8229	22130	A	8289	138	421	LSSVFFFFFERDFCFVPQAGGQWGNLG* WNPWFRGLKNFPGLTPPRSWNNGGPPP PLIFCFLLKKKRVSPRGRGRANFLDLGT PPP GPPKERE
8230	22131	A	8290	141	375	RTFFFFFFKTEGYFVAQAKGQGGDHGSLQ PQSPGLKGSSLRWRDYGSMPPCPSIFF F*IF*KNGASLCGPNNNSKTGG
8231	22132	A	8291	407	209	IGGPGFGSPPPWFKNRPPNLIFGPPKK KNFPPPGGKRNWFF*KGPPPPFFFFFF FFFFYYTL
8232	22133	A	8292	86	433	PPXPNKLIEXGGAF*KRHF PPPRGRVR FFF PGPKKTPAPGQNPGGGKPWGSP FSPGEKNXPPTHPXGGPVLGAPPPPGI VLI*KKTGLPLFVGRA GTNPNLGGPPAP PPKG
8233	22134	A	8293	147	342	LVKFEYTLPKNRYRLGVVAHAYNSSL GGQGRIT*A*EFKTS LGNILRSHLYKK KRKEKKN
8234	22135	A	8294	6	152	CCGHAPPHPANFYSL*RRSLAMLPRLV NSWTQAII LP*PLKVLALQV
8235	22136	A	8295	18	205	IPTRPPTRPIPGRNLNHFTATRPGVYY

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						GQCSEI*GANHSFMPIVLELIPLKIFETGPVFTL
8236	22137	A	8296	1	199	YLYIYLSTILLSIYLSIYLSIYLASYLAT*LAI*KEIYYEEYVLVMTEAEIFHILPSPSWRPRKVMV
8237	22138	A	8297	1	318	PTRPPTRLLSRPIKIQJIALHKFSLCPREYLO*ADYLF*SWIRPAVVPHACNLSILGG*GGRIA*AQEEFEISLGNIVRPCLYCIINKNKKKKPLQIIAFFLCFKD
8238	22139	A	8298	416	304	GFLHVQAGLKLLISGHLPA*ASQNVGI TGMSHHARL
8239	22140	A	8299	352	31	EMILKAAREKK*IPVNEPLICLTVDFLVETLQARREWYDIFKVLKKKNKTKNPFYT KIEYLVKLSFKYEKVTKTLLDP*Q*LRDFINTRHANRNTSNRRKRPIIKHK
8240	22141	A	8300	382	266	RWDFVMLPKLVNSNS*AQATLHVGLPKCW DYREPPHLA
8241	22142	A	8301	2	273	PLTRGPSSASDALSSGGPYHPSECCFTYTTYKIPRQRIMDYETNSQCSKPGIV*V VHTHHTGGRGSQQGLLEGSREWWNGDP QRTSQV
8242	22143	A	8302	77	430	GMGLSMHRTHFQYLAHIHPCVHVHTHTHTHTHTHTHTHTLCM*HTEIHKSVRYGTE HAQDPFSIFSPYTPMCACTHTHTHTHTHTHTHTHTHSVYVTHKVCEETCLSFFYPESGTISHAQEILKRCLENKTHLGWCFTSLL SVANIVFFSYKRQVAAARGGLFFSLSQA E
8243	22144	A	8303	137	396	SSVKTMMNYLPVVHMVADRC*LFQCLPS KKKKKKKKKKKKKGGPLKKKILTRGG GGFFFFFFGAPKKISPGRV*KKKKKKKKKKKKKGGLPLKKKKNFNPGGGNFFFFWGP KKNIAGARLKKPGGGKNPRSP
8244	22145	A	8304	329	144	NGPFFFFFF*DGVSLLCPGWTAVARSRLTFAVFFTLCNCVVGVIHSELQHWFQDYL KLKTF
8245	22146	A	8305	404	157	RTYNPSTLRGRSGQIT*GQDFDTSLGDR VGPFLRKRKRNYYSLVECFYRIKEKYPE SHKAMKMLFQLKPDFLHIFQHIAATN
8246	22147	A	8306	394	294	SLCFLTPPRDFNLGALIKNFYSPTPGWV SCVLSKGPPFFFFFFKDGVLLSCPH*S QNPFTVFALEWSGTPELK*SSHGPLPKAW DTYTEPPHQAQVELLRY*RSFPVLLDG ICIFHSFFSPRGSLIP
8247	22148	A	8307	280	2	VVDASHVTFFTSVITVMLFSIQYVKQLEN IKSWPGIVARACCNPSALGGRDG*AQEFD SSPGNTAKPCLPQKNKTKQKTKNKVGGL LETRSWRL
8248	22149	A	8308	136	330	MSYQRKSVNKYKSNNACEEVTTWARHSG SCLRLYNPSTLVGGKIP*TQEFEETSL SNTIARPYLY
8249	22150	A	8309	3	118	IFVVLVQMGFHVGQASLEL*PQVIHPP QPPKVLGLPA
8250	22151	A	8310	2	366	TRVDPRVRVRSTHRNLCLPGSSHASTSAS*VAGTTSACHARLIFSFSSFFFILGFSE KTGFNFFAOGGEPLGEREPPPFGPPGF WGGGGGGTFKPRRRWKFQKDIIPPLVSN RGDPPEPFF

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8251	22152	A	8311	253	446	SKTFQARGGVTEMGFRHVGQTGLEILTS GDPASACQAAGITGVSHHARLRI*YFI RIFILMTC
8252	22153	A	8312	430	88	GVGRIQTISWSPWLPKPKNSPGSPPQ*VG APGGPPPPGPYFFFFFFQKKGFPLFSGRV *GGSKNFFFVFFFFPKNWGTSPPPPPEGR GFFFFFFFLSRDGASPCCPPRPPKVLGL QV
8253	22154	A	8313	400	323	HRLMPHPIDFFLFFVETGSCYVAQGAC ELLGSGNLPGSAS*NARITDVNHHAQP* KSSSGPGTQQC
8254	22155	A	8314	4	421	GGRIARTQEAKAVSQQCTTALQPGRHS KTPSQKTKKKSPGGPPGPPPGRFFFFF KT*KKGPFLKPPQRGGDPRGKKRGGG LWKPGGKLGGPTKKKTRGGGANPPPLW GKGGGPKGAPRAFPFTKKKPPPSGRNQ
8255	22156	A	8315	213	32	RCPGTVGHCCHSPPLGGQRGRIP*GQEF ETSLANMVKPYFFLNSKKTKNHPDKNN SQAW
8256	22157	A	8316	422	153	AATLYTHKTPHICYFFLDRNLLCCPGWS QTPLKL*AFCLSLPSSWDYRHKPPRPVT SPIFRIKSVDVIPPYLE*NPMMLYLPS YCHI
8257	22158	A	8317	1	284	ERQDWESRLEAMECAFHLEKSVNQSLLE LHQLAMEKGDPQLCDFLESHFLNQKVKA IKKLGDYLSNLCKT*APEAGLAEYLFDK LTLLGGSEDT
8258	22159	A	8318	187	37	TRDFFWPGVVVAHA*NCSTLGGQGRRIA* AQKFESNLGNRVSHTLYKKFKN
8259	22160	A	8319	2	250	KYEOSLQEVEWDCVKRPNLRIIGVPEEEE KSKSLENIFGGIIIEENFPGIARDLDIQL REAQRTPEKSIAKRSSSRHIVIRLSK*EWVDCVKRPNLRIIGVPEEEEKSLENIFI GGIIIEENFPGIARDLDIQLREAQRTPE KSIAKRSSSRHIVIRLSK
8260	22161	A	8320	371	196	NNFSILFFFFETRSH*VAQAGLVLLGSS NPPCSASRVAGVTGVHQRYQQDDFKNFR HN
8261	22162	A	8321	3	235	FISVSKYKSHIPNNMHLKFLVLFLNFF FRDGFWLRSQ*SVVAILRCGHSSLQPLT GLKQSSHLSFQGSWDYRRAPH
8262	22163	A	8322	1	395	LEPVLLNTSLLIASGVSVIT*AHHLIES NRNQIIQALLITILLGLYFTLQLASEYF ESPFTISDGIYGSTFFFVATGFHGLHGII GSTFLTICFIQLIFHFTSKHHFGFEAA A*YWHFVDED*LFLYVSIY
8263	22164	A	8323	322	83	MHQFLVAKVKKGKHGRWFYSCLMIKSA PVLSVTHTNLLCWPGAVVHACNPSTLGG QGRWMA*AQEFETSLDNVGKPHP
8264	22165	A	8324	12	249	GFFLPPPPGGRGEKRGPPPPPLFFFWWFFF KGEGFPLGGGNFLTLEPPRLAPPKGK*GD PPPPGFFFFLKKPKPLLKG
8265	22166	A	8325	139	335	ENILWAATVVLDCHPSTLGG*GGRIT*G QEFKTNLANIERPHLFFFFFLKRNFFFAPRVEGRGPV
8266	22167	A	8326	1	246	FRRLAVAPRVLLCYPGWRAMVQS*LTA ASNSWAQAIHLSLPKCWNYKHTPPYPTC *NSACWDESSFPLLVSAMEVCQPHS

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8267	22168	A	8327	422	107	IYYVRQRKKRGLFFFPRPLPPGGGQWGFWFLQPQPRGV*RFFFNLPRNRPWDFKGLPPPAYFAFFLKKGVFPQGQDF*ILAPKGPTSTSQKGWGFKD
8268	22169	A	8328	1	161	FRGIRWVCHVLFFYLSFFLROGLAVLPRLILNSWAQATLLPQLPE*IQLQTSS
8269	22170	A	8329	422	103	PPFSPPFGGGVPKVRESGPPGPPQGNPFYFKKPKNNPGGGGGPLIPPSSGG*AKGMLSPRPRLPLS*NWPPPQQGGQNKLPPFKKKKERKEKFNFHHRG
8270	22171	A	8330	46	422	STPFPPLASQSAGITGVSHARRSSSSFQC TQIPLFPETLPNLGFGSRHGRGFSSQVL PAQSSSFDDLDLISVLGY*MLSHISLGPN RALGFIPPHLSKWENGSTLRSIVLSQIE GLSSTLSFPHPVS
8271	22172	A	8331	429	112	FSHLGSSPROQFTMLARLVVNS*PCDPP TSASQSAGITGVSHHAQPHAVFYIRLPD SQVLCHQMPYWPTAHYPHRWIFSLVLQK NLSVPPPLWPIQSQPKASILLN
8272	22173	A	8332	291	19	KTPFPKTI*KFPPNFLKFTPAGCGGPPPP FLKKFVSPGNPPPCKIFFFFFPPPPPF FFFFLLRRGSLISIAQDGIQWHYHGSQL PQLPGLR
8273	22174	A	8333	307	123	KYFRGGGGGGR*FPPLGGVKQKKRGNPG GGGSKKPKLGPSPPTRGKKKNFFSPKKKK
8274	22175	A	8334	3	169	HASADMCHQAQLLLLLLVEETGLCHDGRA GFGS*SQEIHPPRPPKVLGLQHFGLIY
8275	22176	A	8335	1	208	LCVCVCVCVCVCVLC*WRKGLALS P RGECSGTNMAHCSLNFGSSNPSVSPSH VAETTGVRPILG
8276	22177	A	8336	1	352	ILFYFIFYFSFCFEMGSRSVSQAGVQC PDLSLQLPLPPRFKRFCLTFPSSRDYR CVPPFLAKFCIIRRRAAIGQAGIELLT LSDPPASAS*SARNTGVSHCSGPSFINF LNWI
8277	22178	A	8337	420	272	KAPCQFSGEKTIVFPKHCWNNSWVPFRKKQ QQKKNLCPCLVLYTSINSQ*TMGLNIKA RTVNIS*KYKEDP*TGKK*INKSCPWTG KKKFLARTQKTIAIWDTLINVWTSPLK MSTKQRHHLKMNR*PKWLLFFVS
8278	22179	A	8338	427	202	LIIYFCHQSVQKKGVLPPLLQEREGWAEA SLKISNISLSSHHTHACAHHTHTHTHT HTSS*NGIKTVVITIKSFA
8279	22180	A	8339	2	164	TPGHGISLCRPGWSAVAPSRLTATSASW VQTILLPPWPE*LGLQESRLLRDHLC
8280	22181	A	8340	422	1	PPGGPGGKTKRAPPSFFKGPNPPLKGK GPGAKPPPCKNGVFFFPPPKVKGPQKNG GTQISQPNKRGA*KFTPFFL*KPPQKK GPPPGEKIFKGPKF*KFPSPGFFFFFFLK OGLTLSPLERSGANTAHCSLKLSSSD
8281	22182	A	8341	1	456	RTRGAVSQGHAIALQPGQOQSETPSQKK KKNPAPGGKGKIGGTAKKKGRNFLDANI LGPNSRPGGAFFGG*TAPPGKKRGSPGP IFGGGKGGPKKKILSF*KAGGGAKFFPS PVGTPFFRGF*KGKILLKKKKFSKPGGG NPNELSPTNFFF
8282	22183	A	8342	407	2	RQFILGAPGVFPQPGF*KPPPQIIFWGP

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						KKKNNFFPPRGEKFFSFKGAPPLFFFFF FFFSSPFFFFGALFFFFFTILFKTKFG VFSCKGIPPKFFKRSRPPNGAGRLPLLG VGPLPGVPQGGEAERKISQGSFQ
8283	22184	A	8343	441	1	PPPYILGGPPRVSPPPFKTPPQIIFFLG PQKKKNNSPPPPGKKIFFF*RAPPPFFFF FFFFFFFPFFFFGALFFFFFTILFKTKF VVISWKGIQPKLFKRSRPPNGGRLPLL GGGPPPGVPRGEAERKF SRGSFQRTGG SAPEFRA
8284	22185	A	8344	466	323	FGVAGTQNPNPGRNPRVPSFRGGPPPGVPQ GRNPPPPWFFPLNPPKHFLTP*VFPFLE PPIEWVGPGP**PSYGFSSPVARK
8285	22186	A	8345	657	347	LFFWWFLRQSFTLVAQAGVQ*CDLGSLO PPPAGFK*FSRLNLPSLDDRCPAPCPA NFVLLVETGFHVHGQAGLELLTSGDPPA SASOSAGITGVSIASAOPAQ
8286	22187	A	8346	3	212	DCSRGPPPHFLANFGGLEKTGSNHVDQAG LKPLSLRDP PASAS*SPGITGGSHRAQF *FIFKRGMAPKGF
8287	22188	A	8347	9	255	IPGPTHPSDFFLYEIDLDPFKN*KGFPPP PRGGGKNPPFPFFFFS*PPWKKKITF QTPLTGVFGAPKNFNFWGGFKKIGF
8288	22189	A	8348	79	312	NAAGFEVGISKA*ALETLQIITREGHSN KPRYAVTFESHEMGTVLHLVEQEHTVGY ITASCSALKC*IESGGFLNDYI
8289	22190	A	8349	1	369	FFFFFLKRDRVSPLSSRVKYKWHDYSSLO LQT PGLQ**SSCLRF LSSQDYRHIPP CPT NF*KCFVEMGSCCVTQGWQTSQGAQAVL PPWASQRHWGLQGV RPLC SLLL SNC PHS RLVWSWL FSGC
8290	22191	A	8350	434	324	LPILSPWWHMPVVPGTREAEA*EQ*SL EPGRRRLQ
8291,	22192	A	8351	3	253	YMCSKFFFLECSGAISAHCHLELPGSSD PPPPT*NF*VIGTTGTCHHEWLLFELFG KMKPHYIAQVGFKL LERNFLKTKKVFP
8292	22193	A	8352	3	1431	SPRGGIPSLKQVYSSLTTNSRPSQHLF* EEALQRAREEEEKRKEITS H FQSTLT D I OGQIEQQSERNMKLCOENTELAEKLKS I IDQYELREEHLDKIFKHRELQQKLVDÄK LEQAQEMMKEAERHKREKEYLLNQAAE WKLQAKVLKEQETVLQAQLTLYSGRFE FQSTLTKSNEV FATFKQEMDKTTKMKK LEKDTATW KARFENCNKALLDMIEEKAL RAKEYECFVMKIJRLENLCRALQEERNE LHKKIRDAEIS EKDDQS QHNSDEEPES N VSVDQEI DAEEEVNSVQTA VKNLATA FMI IHHP ESTPHQSKETQPEIGSSQESADAA LKEPEQPPLIPS RDSESP LPLTPQAEA EGGSDAEPPSKASNSPAGLGAETQCEGL PVGAQADQASWKPEAEASGQAPQAPTEA SLQKMEADVPAPACAAEEHVAAMPACE PSRQPPRAAAELPVGASAGPQPRNVA
8293	22194	A	8353	376	65	IHC GDHVQEVPKLKV CALHMSSWACSQ I PKAGDKILTFDQLTLDTLKGCGTILL SG PHKGQEYVWHFSK ALGTOHSHTKPCVHS RDQKFKH IRG*WASQGYKN
8294	22195	A	8354	459	85	LEEVE SLERVLEKKMIESEELKS KQTRF

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						LEEIKNQDKLNKSLKEEAMLQKQSCEEL KSDLNTKNELLKQKTIELTRACQKQYEL E\ELAFYKIDAKFEPPLNYYPSEYAEIDK APDESPTYIGKSRY
8295	22196	A	8355	231	158	PFFIFYLYQSNDIARGLERGLEPEKVI GATDSCGDLFLMFLMKW*ESVAPMTFSGSRP LSKPRAISLILWYK
8296	22197	A	8356	2	164	IHRGVENQMAEQGWWDKDVSVYWWGAVA HACNPNTLGGQGRWIT*GQEFTNL P
8297	22198	A	8357	23	291	CTHTRAQAHAAHTHHLFYYFLYIFNF FEE TGSH*IVQAELP ASSDPASFSQSAG ITGMSHHAWPT SCILKVKMALCSINC SAACFLY
8298	22199	A	8358	1	307	FFF FEIESCSFAQDG VQWC DLGSLQPPP PGFKQFSCLSS LSSWDYR HVPPRLANFC IFS RDGFHHVG QAGLQLLT SNDPPT*AS QSAGITGVSP RAQPCPAF
8299	22200	A	8359	75	266	FVKTRNLFLTV LEAGKSNIKARAG*VSG EEHGLC LQDGALL PLEGRNA VSSHPRGQ NMMRAKC
8300	22201	A	8360	1	295	NTWVFCFVLLFRDRV SLCCSVR STVASS *LIVNMNL SF PSS*AYRH VSSHLD FFFF FKIQR ILIPR LISNF WPQE ILLWLPQG LGLQ P RPQVL VGNS
8301	22202	A	8361	376	293	MGFHHVSQAGL KLLTSGD LPASASQSAR ITGAGHHAQ PDF*HSGDS WQAPPE PRDQ G
8302	22203	A	8362	375	142	PQE EFLRFAT DVGEY RAVTE LERPV SES WNTQ KDLL*Q KRG RV STY CRHTY GVGES FSV QRR GEH VGG RGL GP CELE I
8303	22204	A	8363	36	363	OLSFNPLIGKK VKLRTV FIGKQFL FLLG GGV REAGA HSQA QAT VR WHNL SSAKRP S CLS LPS CDR HLL PHP ANFC I FWTD *I PP CRSG GW Q TP ELK QF TH LGL PKR
8304	22205	A	8364	455	235	GAOARAPP RGI IFFFW *RKG FCML PRP VSKFWG *VV PLP WPP KRV GLD SWAPP R DF IFFS FFV KKR VC CIL W
8305	22206	A	8365	432	175	STDQ VS VAM GPS*PGAGY NLL VCR WL RP LKK CSIR MGVS*FSR YCL SWL PLD KKGN SL TP CAS RV RRC CTV MLR LML RGL HPL SD KP
8306	22207	A	8366	383	83	RRLIVF ICY FSKK*GL PLL P RLV SNFW P QV ILV WP PKV LGL* AL KKL W LDM V THA YN P STL GG Q GTR IT
8307	22208	A	8367	27	304	FFG FIL TLK KSSN* CTL RFC FLS IGK V R I HTL GN IL S RR GY GER CSL PH CL W E SIC LP V QSN* AL H KKV QM H IP FD Q A I P S RG I L T D TG HK
8308	22209	A	8368	165	204	QNI PIAV S FFF FLK RVS FC PPG* RAG QSL FIG ALTF QV* G I L I P Y PP GN W EL RG PP PN LT N FF *F L N L R F L L G P I N L H Y V H D KT S P L L Y L FFF F
8309	22210	A	8369	400	201	KER PLP F R L I G S P F Q G T W P R F F S K G EV K N S N F S K Y *P P F I N P A P R V C F E G I E V I T K F F Q V R P F F P
8310	22211	A	8370	21	408	L I P L S T Y C V R V C E C V C V C V N I *G Y A C N T L I A C N I L Q D V P F T S P T K D K I F S G D F L T L V G K K



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						DMEPLGDRGLQGTEQLH*GGDRASLQDI CFLPVLSLLCPRSLDLHRHRVGTGFT ED
8325	22226	A	8385	434	176	FADDSDRFDFLLV*CAMLMLIREQLLEG HFTVNMRMLMQDYPITDVCQILQKAKELQ DSK*PGGKRPMFGRREASRPCAVAPGTHR NL
8326	22227	A	8386	2	305	RLWEDPPGCRNTPPGAR*PGPCGECCHTT REEQACAGWPRGRHSGPWRHPQAGPLQLGQ WRKGAGQGARRSPQGSLESRPPTLSAA PPAIHICSVGGVRLHCY
8327	22228	A	8387	331	91	EMRSHSHTQAGVQWRDYGSLQTRPPGLS FNVNWDWVGL*GDPSSPPMILLPSS*ARP GGGWGPGECHVSKEAAGRQLQGPP
8328	22229	A	8388	2	250	IHVRLWSQLFRRRLWEDLLSTGGGSCSE P*SCHCTVTWAFFLESCLRCAHVVYVTL LTALLGSLPCANPRQTAWSLPQAQLV
8329	22230	A	8389	388	176	YWDSQ*CMPSFAVPVESACICAIGHNFS KSVNSVIAVCVDGSSHKYVFTHDGRCHR EA FDVYRDICDDDA
8330	22231	A	8390	445	330	PPRFTPFSCLSLRSSWDYR*PPPRPDNF LSLYSVLHET
8331	22232	A	8391	559	142	LRTLWSQLFRRRLWEDLLSTGGGSCSE P*NREPSAKGRGSGPNRGPCHAASC PARTH SLRHS PAGGVMLTQPRPILILPETQHPS ESAVARTDISKARRWLHSRSPWPH*DET SAGAERPGIRCYIGHPAT
8332	22233	A	8392	104	400	YYEIKKEMYSYYHILHFFFFSFFFFE TKPNVNGPEGKGPILG*LKPWLLG*KHF CLTLPSGGNYRHVLPPPVGFFFFF KKVVFPFVAPRGV
8333	22234	A	8393	408	169	DQWIKDWNINGSLRPR*KGPQTIIILTTP TAVKIEGIPAWIQQHSQVKPAAPETWEVR PSLDNPCKVTLKKMTSPAPVTLRS
8334	22235.	A	8394	1	269	YCCPLFSSKALTQENSPYSSFRLVNPPG LSLHPEGEGGKWINERGRELGPSAGPLL LFLHFAEAGRQOPDWADSEADLQQVRH KLGQP
8335	22236	A	8395	2	204	KDCKVNEVERVLREFHQAGKPIGCDAS TSLPAPAPWWSWNAALCCPGLSCVWCWQ GESRTCVGEHQ
8336	22237	A	8396	3	285	KVTVKYDRKELRKRLNLEEWILEQLTRL YDCQEEEIPELEIDVDDELLDMESDDARA ARVKELLVDCYKPTEAFISGLLDKIRGM QKLSTPQKK
8337	22238	A	8397	1	192	ETGFHHAGQDGLELLTSGDCPSLASQSA RITGVSHCTRAQLLTEQEYFKQNQHLPSP AFYKRAF
8338	22239	A	8398	8	241	LNPFLYAFLEPRFRQACTSMLCCGQSRS SGTSHSIRGEKSASYSSGHSGQGPBNMG KGGEQMLEKSIPYSQETLVVD
8339	22240	A	8399	2	240	SCLNPFLYAFLEPRFRQACTSMLCCGQS RSAGTLHSSRGEKSASYSSGHSGQGPBNMG MGKGGEQMHKSIPYSQETLVVD
8340	22241	A	8400	10	272	CNWQNAYLTIVRCAQDCEDYFAERLYRS MKGAGTDEETLIRIIVTRAEV DLLGIKP FKHQKYQKSLSDMVRS DTCGDFRKLLVA LLH

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8341	22242	A	8401	47	248	TRGIFFFFNLNTRSVVAQAKGLGHDHSS LKPQPPLRKQSFNLSLLSTWNYGGLLPH SALWKAAAKS
8342	22243	A	8403	497	303	TVEASVSYLLVYAMVMQLPWGKSPASGA ESHRGCGGSWPGGGMEEGRGAERGGGC LLPQALLY
8343	22244	A	8404	3	235	LTLAHCRMMAAAHMGPPMPMMPGPNT PGMPVPGPAPGMRPPLGGHMPMI PGYPM MRS PARLMMVPSQPRMTRPDR
8344	22245	A	8405	3	246	LVFSVDVGLLAHTQRGLKRSSGMSSLL GKIGAKKQKMSTLEKS KLDWESFKEEEG IGEELAIHNRGKEGWIKGAQPLGQ
8345	22246	A	8406	1739	804	WEPDVSGSAWLASAAFGMATFSGPAGP ILSLNPQEDVEFQKEVAQVRKRITQRKK QEQLTPGVVVYVRHLPNLLDETQIFSYFS QFGTVTRFRLSRSKRTGNSKGYAFVFE SEDVAKIVAETMNNYLFGERLLECHFMP PEKVHKELFKDWNI PFKQPSYPSVKRYN RNRTLTQKLRMEERFKKKERLLRKKLAK KGIDYDFPSLILQKTESISKTNRQTSTK GQVLRKKKKKVSGTLDTPEKTVDSQGPT PVCTPTFLERRKSQVAELNDDDKDDEIV FKQPISCVKEEIQETQTPTHSRKKRRRS SNQ.
8346	22247	A	8407	2	241	CLRFPSSPAMGLLRSGTKLI FRRRPKQK EAGLSQSHDDLSNATATPSVRMKAGSFS RRLIKRFYFKSKPKANGNPSQL
8347	22248	A	8408	285	186	KQGLTSLPRLVSNSWAQAFLLWPPKVL RLQA
8348	22249	A	8409	1	246	RHENREELQVIADLCI KYDTLCISDEEF MNGVEYIWKGPCFCLTTFLYLKGDIFP RPPSGCLNLWIVLNPMYPVHLITSC
8349	22250	A	8410	1	102	AGSYTLHIIKGDDGTRGVTRFTFTLHR IQTSEE
8350	22251	A	8411	877	647	FFFETESHVTQAGVKWGDILGSLSQSLAP GPKKFSCNLNPLSSRDYRSPPPPPLANFCT FSKNVGSPCWPGRSSTPDRR
8351	22252	A	8412	1	130	RMLNDKTLRLTDIGGNFPKNGWAAIATHS FEFAQFDNFLEATR
8352	22253	A	8413	97	401	CNPENGLTASALGRRMCLATCKAPRTL P DSGDTASC RFPAVPRPPHSRRSSGSGHL PGRPRCPALPGLEWSNPPGPPTSGYLFP TFSTPAAHSHQKTLGI
8353	22254	A	8414	348	516	VSAYGFI TEGERFSDHYYDTSWKRLIF YINHDFKLEREWV KRLHDEGIIRLYQRL
8354	22255	A	8415	714	410	LGVRSLAHLGSLWLLRSFPQKSPNPLA LLLLFLQCNTAYQCLLIADQHCRTRKYFL CLASGIPCVSHVWVHDCHANQLQNYRN YLLPAGYSLEEQRI LDW
8355	22256	A	8416	2	102	GHDPQDRLLAQDSEHNHS DRNWQRNRPW PKDSY
8356	22257	A	8417	1	309	FYFENALSKS NKP IHTTILNPHVHLVGD DAACIAYIRLTQYMDGSGMPKTMQSEET RVWHERRDGK WQN VHFRSGSPTVPIKPP CIPNGKENFSGGTSLWQNI
8357	22258	A	8418	3	242	ARALTNAASHVDDMPNALSALNDLHAHK LRLDPVNKL LSSHCLLVTI LVDHPDEFT PVEHA CLDNVLA SVSTVLT FKYR

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8358	22259	A	8419	711	296	NVANSGLIASLWKEYGKADARWVYFDPPTIVSVEILTVADGSALFLIYAIVKEKYYRHFLQITLCVCELYGCWMFLPEWLT RSPNLNTSNWLYCWLYLFFFNGVWVLIP GLLLWQSWEELKKMHQKETSSVKKFQ
8359	22260	A	8420	3	97	FVVSSLCGNLIAAQLLFYWNAKPPHKQKKAQ
8360	22261	A	8421	1	279	GCGIADLAMSAIFNFQSLLTIDILLICTCAYIPS LAPNLDRNKTGLGIFWKCAT IVERKSPYVAVCCILMAFSILLIQKLVKMPQCICHNI
8361	22262	A	8422	1	228	RHEVFIELNHKKCNTVRGVFVLEEFVP EIKEVVSHKYKTPMAHEICYSVLCLFSY VAAVHSSEEDLRTPPRPVSS
8362	22263	A	8423	3	182	SEDTGEEQVVTAEFINRGEYEIDIAGYRFQAKAKLYPVASLFTQKRRKDDMELSDLHGK
8363	22264	A	8424	1	70	VQFVFDAVTDVIIKNNLKDCGLF
8364	22265	A	8425	2	151	ETTASSCTPASLESRRCCAPCRMPRTGF FGSSPLWRPGSGRSRLKPGFQQ
8365	22266	A	8426	1	187	RGRVGPGERLVPGVPGAEAQQPAGDGV RAGPLQARPPAPVGVSQGRCAAGAAAGPPRDG
8366	22267	A	8427	520	423	GKYQLSQENFEAFMKAIGECWTERQSCGSHQ
8367	22268	A	8428	1	627	GTSGTRGVGTGYFTFTLYLETPKPSISSSNLPNPREAMETVIITCDPETPDTSYQWNM NGQSLPMTHRQLSETNRITFLFGVTKY TAGPYECEIRNSGSASRSDPVTLNLLHG PDLPRIHPSYTNYRSGDNLYLSCFANSN PPAQYSWTINGKFQOQSGQNLFIPQITT KHSGLYCVRNSATGEESSTSLTVKVSA STRIGLLPLLNP
8368	22269	A	8429	3	390	ILGCNIRVEYSLVICVSVPGSKKVILD LPLVIGSRSGLSSRTSSMASRTSSEMSW VDLNIPDTPEAPPYCIMDVIPEHDHRLESP TTPLLDDMDGSQDSPIFMYAPEFKFMPP PTYTEVDPCILNNNVQ
8369	22270	A	8430	3	208	NGTHVIILLCLKTCGTVVNVANDMIVAS NLGTGVPNQTPVSSGDLIIRNSNGLLIPG TCEITRLYTISE
8370	22271	A	8431	3	563	LPTSRVDPRVRLDRMKKDQEEEFDQGPP CPRLSRELPEVVEPEDLQDSLDRWYSTP FSYPELPDSCQPYGSCFYSLEEEHVGS LDVDEIEKYQECEEDQKPPCPRLNEVLM EAEEPEVLDQSLDRCYSTTSTYFQLHAS FQQYRSAFYSFEEQDVSLAIDVDNRFFT LTVIRHHLAFQMGVIFPH
8371	22272	A	8432	2	119	DGDNLVITTFIYIKSVTELNGDIITNAS WRCSERVAPSA
8372	22273	A	8433	192	1285	AGVLSIIETDSEGLQTKVVENQTYDER LEINDSEEVASIYTPTPRHQGLPRSAHL PNKAMADNSSDECEEEENNKEKKKTSQTPQRGFSENEDDDDDDDSETDSDSDDD DEEHGAPELEGAYDPADYEHLPVSAEIKE LFQVNQLRCVPTDVLDHKLKPFI PDFIB AVGDIDAFLKVKVPRPDGKPDNLGLLVLDE PSTKQSDPTVLSLWLNTENSKQHNITQHM

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						KVKSLEDAENPKAIDTWIESISELHRS KPPATVHYTRPMPDIDTLMQEWSPEFEE LLGKVSLPTAEIDCSLAEYIDMICAILD IPVYKSRIQSLHLLFSLYSEFKNSQHFK ALAEGKKAFTPSSNSTSQAGDMETLTFS
8373	22274	A	8434	3	251	TLOQADHFNTRLSCGDAAQTLWARTGYLG FVRTELTAATGERHDALYVVGALDETL ELRGLRYHPIDETSRSRIHRSIAEW
8374	22275	A	8435	1	225	QTTFNLEGSQIYEDSIVLQSVFKSARQKI AIEEESEDESNEEEEDEDDEEYHEWKRYD RLGENMCLNCIWNNGGYIV
8375	22276	A	8436	95	340	CGCGIAGLAMSAIFNFQSLLTIVLLTC TCAYIRSLAPSLLDRNKTGLLGIFWKCA RIGERKSPVAVCCIVMAFSILFIQ
8376	22277	A	8437	1	317	GPKPLVRTSREPGBKDVTTSGYSSVSTAC PTSSVDGGGLGALPQPTSVLSDLSDSHTQ PCHQARKSCLQWRPPSPESTVSQQQV KRINLCIHSEEDMNLGLVRL
8377	22278	A	8438	80	213	PHLSFNAGITTIKVNVNIRNANSLGGGFHC WTCDARRRGTLQSYLD
8378	22279	A	8439	3	767	HEDNIKQLKEMKFTYLINYIQDEINTIF NDYIPIYVFKLLKENLCLNLHKFNEFIQN ELOEASQELOQIHQYIMALREEEYFDPSI VGWTVKYYELEEKIVSLIKNNLLVALKDF HSEYIVVSASFNTSQLSSQVEQFLHRNIQ EYLSILTDPDGKGNEKIAELSATAQEII KSQAIATKKIISDYHQQFRYKLQDFSDQ LSDYYKEFIAESKRLIDLSTIQNYHTFLI YITELLKKLQSTTVVMNPYMKLAPGELTI IL
8379	22280	A	8440	103	354	NGCECDFLFLFLFYFFETESRSVAQAGV QWHCLGSPQPSPRFKRFSCLSLGGRG GWIMMSGVQDQPGQHGETPFLMQAGLKTT
8380	22281	A	8441	3	160	KLYPLKIVFGMNGRVWVKGKTVQQTLIL ANVLEACELMTLDQRILMFILAES
8381	22282	A	8442	459	3	CGGLHPVRAWSLLCLPKQAWAMAGAPP AWLPPCSLISDCCASNQQDSVGVPGPSEP GAGYNLVLRRFLSLSEKRSIRVRVTRFS RCHLSPSLTRKGNSLTPCTSRRVROCLA LLRLAHGALHPSCAHCLALPSEMTPVP QMENAEITRLL
8382	22283	A	8443	2	318	RQGNMTAALQATLLNNPPINTKSQAVNDR ARGIVLNVLISFKANDIEKAVQSLDKNG VDLLMNMYMYKGFESPDSNSNAMLLQWHE KALAAEGVTSIVRVSTALIP
8383	22284	A	8444	2	109	VTPFPMSCDLQGDCACRNQPQAQEHSRKDLRGYSHG
8384	22285	A	8445	1	69	LVLNSWPQVIRRPWPPKVVGLOV
8385	22286	A	8446	1	163	PSEKHNIWVGVTQFSRCRLSPLSLTRKG NSLIPCASRVQRCQLTLLRLVHGACTH
8386	22287	A	8447	1	147	GQAGLELLMSGDRPTSASQSAGITGVSH RARPSSISFILELRGSVRKKF
8387	22288	A	8448	914	729	GLTMDTQKDQVPPKQQPMIYICGECHTE NEIKSRDPIRCRCGYRIMYKKRTKRLV VFNDAR
8388	22289	A	8449	134	392	TCPPPPPEPPSPLTCAVLVPQTRRWRLGSSLFRACCVALPLQLLLLLLFLFLLP TREEDRSCTLANNFARSFTLMLRYNGPP

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						PT
8389	22290	A	8450	37	248	AKITPLLQPGRQEODSISNNKKILRCCLTMLPRLASDSSGFKRSSHFSLPLTSWDYRH SPPPLASVPFLLMC
8390	22291	A	8451	367	165	NFFVFLVETGFCHAGQARLQLLASCDLP VLAQOSAGITGVSHCARPISTLKDTIKT SHFVPLKISGK
8391	22292	A	8452	2	282	GKRMAGGPEMMQLRLDGNNRLYITTSMFS AWDKHLYPDLLIREGSAMLHVDVDTALGG LKLNPYFLVDFWKEPLGPSLAHELRYPG GDCSSDIWI
8392	22293	A	8453	4	163	HHDFHAQSLLANITERIAILVFAACEAAA VLSLLVSISNTYGLDYLHNLLKLLQC
8393	22294	A	8454	374	197	TPEPKQSSHGLGSKCWDYRHEPPHQARN STFDNSNHSSLAAEDKLLGYFGLSQWQPG YQP
8394	22295	A	8455	343	161	MGMGPSPVPGTYNLLVCRLLRPLEKCSI RVGVSQFSKYHLSRLPLPRKGNSPTPCA FWVR
8395	22296	A	8456	1	193	MGFLHVQAGLKLPTSGDPPTSASQSAG ITGMSHRVQPYYVLSICQTLHSVCICLL IILTTVL
8396	22297	A	8457	342	263	WLRPVVPALWEEAGGSLELRSSRPA
8397	22298	A	8458	101	303	KAAKYLFQRILHFCFLNLKKDNMLLFNHR MENFKELFGPGTVAHCPNSTLGGRGGW ITRSADRHDHPG
8398	22299	A	8459	3	140	YLKHLCMYVCKYLQGLLMLPRLVLSW AQRIILPWLKPVLGLQV
8399	22300	A	8460	327	248	FPRLVLSNWPKAIIAMPWLCKVLGLQA
8400	22301	A	8461	327	79	SIPFILAFFIYLSFFFKETGSQSVTHAG VPGIIIACQCLQLLGSGDPDSASLVVG TTGTYPTPILSVFPNMPSFILLCMLF
8401	22302	A	8462	365	273	MGFQHVGQVGLRWPQVICLPPPLKVLGL QA
8402	22303	A	8463	375	217	QAGLKLTSDDLPASASQSAGITGVSHH AQPRHHFFFKTRFIYIFFSSPSSVLS
8403	22304	A	8464	238	354	RGKCFVQAFLYKECSGGQARWLTPVIPE LWEAEVGRWIT
8404	22305	A	8465	367	248	FQMRHKWLIDLHSPSEIKQITSISIEP GVEVETIADI
8405	22306	A	8466	341	153	NMILGWAQWVTPVIPAIGEAHWGGLLYP RSSKPAWATQQNLLFTKKKKNIYIYIYI YIYERY
8406	22307	A	8467	368	101	VEMGFRHVGQAGLELLTSSDPPASVSQS AGSSTSPTADLLTPGVGVYGLVDKNP VTLIAMQRLPAVLEKKSVARKNSENKIV LKRGQ
8407	22308	A	8468	362	248	HVGQAGLALLASGDPPPTSASQSARIAGV SHRARPEAPL
8408	22309	A	8469	384	196	SARLGLPKFWDRREPPCPADDMLILMV GILETFSLIFTATMESRNYCVYFKMRNK HIISKTS
8409	22310	A	8470	386	300	LAMLPRLVPNSWSQVVLSPLPPNMGLQ V
8410	22311	A	8471	380	178	PKKKKFFFFFFFFF FFFFFFFFFFF FFFFFFFFFFF FFFFFFFFFFF AIVYQTLACNNKFLQMERVTRKLRQC

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8411	22312	A	8472	3	154	FLVDMGIHHSQAGLKLTSGLDPASAS QSPIFFFLFFFKEQQLAQAGG
8412	22313	A	8473	3	162	GLYHVQAGLPLTSGDPLASASQSVRI TGVSHTRTRPKIIFKLIFLFFLVA
8413	22314	A	8474	266	107	LCLFLIEMRFPYVVOAGVKLLSSSHLPS SASQSDRITGVSHCFWPEVFKRGIF
8414	22315	A	8475	361	169	RLPGPSNPPISASLAAGITGARHHAQLI FVFLVEMGLCQAGKHNFEKYSRVLIYSP IVSFTHFI
8415	22316	A	8476	1	154	KKLIPTLMDHGAGFKSSVKEITTAVVEM AREVELEVEPEDGNELLQSRGKT
8416	22317	A	8477	3	193	SHYQSLISSNHGHKHCGRPQGPLPRKTI DLCSLDYQLTFPLLTHDPVKSPSVRNT QELSLIP
8417	22318	A	8478	408	103	TGSRLTLSSRVECSGVITAHCNLELPGS SDPLASASQVAETTGHHHVWLIFLGIF LVKMASHYVAQDDLKLLGSTDPPVSASQ SVGITGISHHAWATICYK
8418	22319	A	8479	59	166	NVNTCCLCLHTHTHTHTHTHTHTHNYFKE TPIHQYI
8419	22320	A	8480	394	253	FLLLLESFGFCHVAQAGLKLSSCDLPA LASQSAEISGVSHCAQPLA
8420	22321	A	8481	379	184	CFSLPKCWDFRGPVPISPGDFWNFIIKLG VCPFCQGGFELLAPNDVAASGFQNAGIS GINFWAWAL
8421	22322	A	8482	367	170	CGLSSGLGGRSGRESERKERERERDRE KKKEGEGERKRERERESVSSYKDINSMG SGPHPSLI
8422	22323	A	8483	324	136	QRSSCLSLPSSWDYRRMPPHLANFCIFC RDGVLPCCPSWSQMTTSFSLNFLICLV GIILGRG
8423	22324	A	8484	1	57	GERRYGTCTYQGRlwafcc
8424	22325	A	8485	35	339	GWLRFFWWQWKNGNNLNVSЛИDGWLSY DTLYNGILNCMYILTEGDSQKKKKKK KKKKKKKKKKKIDPAGNSKIYNRKIFKT PRGFFKWA LGPLLILFF
8425	22326	A	8486	330	66	RPGVSRFNPNPWLIFFLRRVFLCRPGWNA VVQSLLTKISASQVQAIFLGGGGCSEPR SCHCTPAWATTAKLCFKKKNGKNFTDIM FSK
8426	22327	A	8487	3	209	CLSLLRSWDAQAPPHPANFFLMFNFCR VGVLLCPCPGASSDPPPVLVSQSARITGM SHCTWTIFLSFK
8427	22328	A	8488	3	216	GQSITVSCTATNSDVGSSNLVSWYQSSN LVSWYQQHPGQAPKLIIYEDNKRLSSEK KKKKKKKKKKKKKKK
8428	22329	A	8489	326	62	PAYFSIGSFFLFLFFFKTECHSVTRLEC SGAISAHCCKLRFPGSSNSPASGGGRSE PKSHHFTLAWTTTRAKLHLNKNKIKTVKE FLS
8429	22330	A	8490	2	156	SSAGIGRTGCFIATRIGCQQLKARGEVD ILGIVCQLRLDRWVCGCKQGQQR
8430	22331	A	8491	399	254	KNNKRNKTINNNKITNKLIIKLNKNKISFLY FFFFFFFYFFFFFFFFFFFF
8431	22332	A	8492	2	130	FRRVGQAGLELLTSGDLPASASQGAGIT GVSHRAQPTFLKSC
8432	22333	A	8493	3	94	HLPAEFTPAPVHASLDKFLASVSTVLT SKYR



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						EHDRTALTINGHLNSLQSNPLLPDQKVC
8453	22354	A	8514	99	262	MNKRFLLNKKKKKKKKKKKKKKKKGG PFKKNPGGAQIFPGGEKKIFFLKGG
8454	22355	A	8515	85	2	GWGWAQWLTPVPIPVLWEAEAGGSRGQE
8455	22356	A	8516	244	423	VFAVFNFGLGVMDMLINLA VVTTIQLCAC ISNNHHVVHLEYIQFLFANYTSIKLGKPK SKSV
8456	22357	A	8517	3	114	KINGEDKQKILDKCNEIIWLDKNQCV FFFFFPPI
8457	22358	A	8518	413	91	GGVRGKISFRGGGFLKKKKKKLLKKKK WGGGPKEKKKRGGFFFFFLNFFFVG KKKKKKKKKKKKKKKKKKKKKKKKKKKKR GRKEGREGRRKEGEGRQEINMTA
8458	22359	A	8519	1	163	SRLPGRSRRRSRGRRRRRRRRRRRRRR SRVLIFPWQDNLDLNIVYIIEDVDA
8459	22360	A	8520	191	21	RFTTHDAWATTVFLIESVFLHVGOAC LELLPSDDLPA SASENARVTGVSHRAWL
8460	22361	A	8521	2	144	AAATSQAWWCMPVVPATWEAEVGASLKP GRLQLPLTMIALVHLSYAI
8461	22362	A	8522	90	8	KPTPFLPTLIARTTLLPISPLITIL
8462	22363	A	8523	305	146	VFRIHSCGIRGSVDVKITDGLLVIRRIE NVPPGPNNKNKNPYAI FQSSSIESQ
8463	22364	A	8524	176	2	LAWPFLFLPKCWDRYRHEPLQPASLTTFV REWDKIGWAWWLT PVI PALWEAEVGRSQ GQ
8464	22365	A	8525	2	200	CLIPSSWDYRHMP PR PANFCI FFFF LGD HVSQVGLKLLT SKDPLAWTSQRAGITGF SHHTKPQGFF
8465	22366	A	8526	2	217	SFSLLFPPSF SLLL PPLAS LLLPPLPSF SLLFPPSF SLLS PPSFS LLLPPSF SILL HPTFSHLYPPSPSFI
8466	22367	A	8527	2	186	IRGLRPLEKRGIRVGVS RFSRYHLSRLS FARKGNSTPCASRV RRCPSL LHGLHPL SDKPQ
8467	22368	A	8528	3	153	CLGF LSGWDCRCI CIPPCLANLKKLFVEMG SLFWPQWILPPWPLKVLGLQV
8468	22369	A	8529	2	388	RTAVHTFILV LQCVCRWHL SLA ALTPA HLVCSSHRILSYLSIRGSW DHRCM TTP GLVISIFFVEM KYRYAVHAGHILLGSSY PASAYQS AETGVSHWA PTD SLWQKPH MVIWCISCF LNVLIGTM
8469	22370	A	8530	293	64	YRISIKVSKWFKG WVSS FWIFF FVFFF SFFFVFCMF MFLKQYLKF IINIIII TQALYICITTSK ICYSFLYFR
8470	22371	A	8531	2	250	SCLGLPSSWDYRG TL PCLANFCI FN RDG VSLCCQGSQ TPGS QVIDE AVS IYAYY I LALLIVYVAQWEVWLKHFC CILK YT
8471	22372	A	8532	2	201	FHHVGQTGLE LSSG DLPAS ASQCAGIT GVSHCTWPSI LYRMNFKNL SAVFIAWVI EGNYTNKTCI
8472	22373	A	8533	319	200	TFTFFLQRWG LTL PRL VS NSWA QAI CL LQPPK VLELWA
8473	22374	A	8534	160	297	KTETLALVAHACNPSTLGGIGRQVSSAH EFKTI LGNM TKP ILYTKL
8474	22375	A	8535	333	228	PNRGHYIAIVKSHDFWLLFDD DIVEVSS FLISYF
8475	22376	A	8536	3	325	PPSSLLPCSWILDCCASNERDSVGVGPS

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						EPGAGYNNLVCFCFLSLLKRSIRVGVTRFSRCLSLPLSLTRKGNSLTPCASQVRCLALLRLAHSALHPLSCSYCLALP
8476	22377	A	8537	216	5	KLGFLVNLVFEFQVKFFFLEIILIEMRSHYVAQAGLELLGSGDLPASASQSAEITGMSSHHALPNYSF
8477	22378	A	8538	136	22	RPRRRRLVLVNPWPQAILLPPWPKVLGSQLWATCGRRPAS
8478	22379	A	8539	136	22	RPRRRRLVLVNPWPQAILLPPWPKVLGSQLWATCGRREAS
8479	22380	A	8540	8	319	YIYMSMYMLIYVCIYVSIYICVCIYINSISFTNYMIYIYMLIYVYMCVYICVCVYIYTNSISFNTHITPIKHSDVHTVSTTRCNLGGRGFCHTWPLPHLAGW
8480	22381	A	8541	331	156	SVNGLLSSLPACLPVCLAECLPSFLPSFLPSFLSFLLLQLQKPVNSLIFSQSLISIS
8481	22382	A	8542	72	1	KIGQARWLAPVIPALWEEAGGSP
8482	22383	A	8543	2	83	QAGVQWRDLGSLSQALPFGMPFSYLLGG
8483	22384	A	8544	293	2	KTVWHYLVNAAPEVEIQAIYSQETCKSMYQETCTRIFIAILFIIAPWNWKQRQDTMNPGNKENGKVATLDSDGFLVRFQSLMRSNCPLYPFNKFPIILLK
8484	22385	A	8545	314	122	LVETGFLHVGRAGLEIPTWSDPPTTSASQGAGIAAVSHRGQPVDFKNNISTQIQGRP
8485	22386	A	8546	316	123	IICNYKTFLVKTGFLNVGRAGLEIPTWSDPPTTWASQGAGIAAVVSHRGQPVDFKNSISTQIQGRP
8486	22387	A	8547	3	247	IICNYKTFGITATERLANYTGGIYAELYQDTTYINHV
8487	22388	A	8548	289	25	VSVAGWGDISDGTEYWIVRNSWGEWPWRCFHFLKVIPRKKTSWYSSRLNGSVYV
8488	22389	A	8549	289	2	QRREKFFKNGPPIFFRGPGFPQIFVSPFFFFPKIGVFFFRRFLVKGDFFSN
8489	22390	A	8550	290	187	FLKINCFFFFFFFRRCLIKNRPCLKKIGETLCKLKLCKKFLLDVTPKAQFK
8490	22391	A	8551	293	183	QKKEKLINWQFIKIKNFRSPKALLRKGK
8491	22392	A	8552	364	87	GKPGTGRKRKRNANHISDKGPLCRIQKNS
8492	22393	A	8553	57	225	RGRAQWLTLVV
8493	22394	A	8554	326	2	RQENPLNLGGGGCSEPRWCHCTAAWTE
8494	22395	A	8555	372	148	QDSINKRDEGRGISYMLPRLVLNSWPQAILLPQP
8495	22396	A	8556	422	269	PKVLELQA
						MLPLDFFLGPSSLDFCPPFCESGSGGIKV
						PESTTPRASAFLLPPGAANLHHILQLVGA
						PRVPPGFHHVGQDGLDLVDLVIRLPRPP
						KVVLGLOGG
						KWQKWTWPWAGGVAHACNLSTLGGRGKIA
						CAEEFKTILENIVRPLCSKNKWISFS
						KSKRGYSEPLVFSICSARAPRSHSVSQA
						TVYGHAASTQPFPPLNRSSYLSLSS
						GDYRHDPPLPLAYICISVIGNDVEHLFLC
						LLSTCISSVNRSHVYSTLVPIFGPKV
						YICFLRSVSRQILFTPDCSDCSMWVPCN
						IRLPGSTHWCASASQGAGTTGARHARL
						IFFVVVFCCIFSIFSRNH
						AADQERLHTYQLNYYHFCKRWGLTFFPR

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						LVSSSWVQAILPTWPHKVLRLQA
8496	22397	A	8557	669	407	AGVKWRNLSTLQPPPFRKRFSHLSLPS SWDYRCPLPCPANCYICIFLVEKEFRHVGK AGLELLTSGDPPAWVSLIAGITGVSHRA HPD
8497	22398	A	8558	195	352	LGLQAGTTASGYSTVILGGMLKPRSWAW WPVPATREAEVGGSLEPGRSKLO
8498	22399	A	8559	345	219	MLARMISLPCDPPASASQSAGITGMS HHGWLNLFKSIHL
8499	22400	A	8560	137	2	VKYCLPTRSLIKTVRPLSPSQATASPVT CTYTPRWPEVTEESQKN
8500	22401	A	8561	324	193	RSSGNLPASAAQSARITGVSHRTRPKCI ISKEYVAENNHLKSTS
8501	22402	A	8562	326	121	HNHTHTHTKHNKKHQQPQHTHTYHTQTD IYVLOAASQKSLLISLSSLA
8502	22403	A	8563	3	85	HEHTHTHTHGHTHTHRHTHTHTLCARM
8503	22404	A	8564	2	153	ARDRHIPPCLTNFSVFRDGGLAMILPRL VSKLWAQAVHPWPWLLKVRLQ
8504	22405	A	8565	2	177	ARVGFYHGQAGLGRLTSGDPPASASQS AGITGMSHRARPMSLTLHILQDTWRAY AG
8505	22406	A	8566	353	212	AGFRHVGRAGLELVTQDGRTSACQSSG ITGMSHCAHPEKSTAFILF
8506	22407	A	8567	76	191	ELIFCRDGGLTVFPKLISNTWPYAVLPL WPPKVLGLQV
8507	22408	A	8568	1	142	GTRGFLHVQAGLELPTSGDPPALASQG AQMTGVSHCASQKKEFLEW
8508	22409	A	8569	250	95	SASRAPLPLPPSHLPLRAAGLSPLCPPR LVSSYRPHVILLPLPPKVLGQV
8509	22410	A	8570	3	226	HEHTHTHTHTHTHTHGHTHTHTHTLV LVYSLCEHIWRFIVVISRARVCCIYVVVF FECGYADRRVADKWLWIH
8510	22411	A	8571	1	216	GTRGLGVGVSHLVSKNTHHTHTHTHTHT HTHTATASQLSVFKIWAQFQRSLDKGLTYI NSNSYCSSKFLYLNH
8511	22412	A	8572	356	268	LTMLARLVLNFRPQVIPQPWPPKMLGLQ A
8512	22413	A	8573	12	175	RWGFPVGQAGLELLTSSDLPTLASQKA EITGMSHCARPSFFSFFFWKHL
8513	22414	A	8574	1	163	GTRTGFHHVGQADLELLTSGDPPVSASQ SVGITGVSHRAWPVGLCIIIALISNEY
8514	22415	A	8575	344	176	EFLVETGFRHIGQAGFELLTLGDQSTSA SQNEITGVSHPAPGLAITFKSGNQAFF
8515	22416	A	8576	2	179	ARGILCHSGTFKLDSRPSMVAHTCNPST LGSGGGRIACGQEIDTSLLKVARPRLYG QIF
8516	22417	A	8577	1	100	GTRGFTMLPRVVSDSAQVILLPWPPKV LEIQLM
8517	22418	A	8578	3	114	HERHEILSIYLTIYLSIYLSIYLI YLPTITRI
8518	22419	A	8579	1	264	GTRPCRIELYRVVESLAKAQETSGEEIS KFYLPNCNKNGFYHSRQCETSMDGEAGL CWRVYPWNGKRIPGSPEITGDPNCHIYF NVQN
8519	22420	A	8580	1	245	GTSGTSGILGFYLEREDRLLQIRTDTIT LSHGYSTFSLNRCDSRHHMNRMFQMLYQ SPFLGYIQLSHEVLAFCISYIYNTE

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8520	22421	A	8581	1531	1457	QARNETIARRLWDVSCDLLGLPID
8521	22422	A	8582	191	2	TITSYFSPTPAPGSHYATFCFYKEDYSR YFIKVWEAETGGSRGQEITILANTV KPRLSRA
8522	22423	A	8584	2	212	ARAGIYPKEYKSFYKKDTCMRMFTIAGLF TIPKTWTQSCKCPSWIDWIKKMYRQGPIL SPMLECSGEVSGFK
8523	22424	A	8585	2	192	ARGNSPASSESVAGITGAHHHARLIFVF FLFVRRFFSFLKTGFKLVAHSNFQPLTL FAPLHFK
8524	22425	A	8586	277	66	PLDFRLGHKRLLPFPKKKKESKFVCVC VCVVCVCFKRCQCLVTPRLVSNSWAQA ILLSWPPKILALQV
8525	22426	A	8587	395	286	PHLGLPKCWDYRREPPCLAEVVLKKYVV VTYFSFR
8526	22427	A	8588	307	177	RYPSTINYSILNRDKIMPKLDRMVYKAR PRVMCLPWPPKVLGL
8527	22428	A	8589	167	349	RNLRELGEFFFFFWFFFFFFVGKFS VFLLVGNLFLFGGGIFGLSRVMCFKEF RCFS
8528	22429	A	8590	375	240	LLSRFSWFCFVFRQGLTMLPRLVLNCWA RGILLPWSPKVLGLQ
8529	22430	A	8591	347	215	ETGFPHVGQAGLKLLASSDPPASASQSA QITGMSRRAQPSAKRF
8530	22431	A	8592	340	114	HRTAHCSLYLSGSSDPATSSSQVTGTTG KDQHTWLFLKYFCRARVKINKYKSINK FYFLNTQTTPSEYGKASPG
8531	22432	A	8593	86	253	LRLCCGLSCSTAKKKKKKKKKPKKKKI KKKNLHPKRGGFEEILFFFPKGGKNLF
8532	22433	A	8594	3	135	GFCHVGVGLELLTSGDPPALASQNAET TGVSRAWPPVLF
8533	22434	A	8595	2	274	PRVRTISLLGILVYRSHLISSLLEGIT ILSLFIITATLITLNTHSLLANIVPIAIL VFAACEAAVGLALLVSISNTYGLDYVHN LNLLQC
8534	22435	A	8596	3	316	SIPYSWGEKEGIPCMAPPQIQGTSRLND FTALSLHLNTHTHTHTHTTHEIQHLPP QGITALILNSLRLHYCPSLAFPSLSPKQ NLTVRHCILSRDTWLATASK
8535	22436	A	8597	385	291	KAPPLFFFFFFFBBBBBKKKPKPV KKILGV
8536	22437	A	8598	275	369	GVQLKLLTSGDLPALASQSAEITGVSH RAR
8537	22438	A	8599	98	344	VHYEEFMCCVVCVVCVVCVWCPRVRGVD MNPVEHPFGGGTHQHIGKPTIRRNASA GRKVRLMAALWTVRIGGTKTVTLRKT
8538	22439	A	8600	328	195	THVPPSLAKFVFLVKGFLHIGQAGLDL STSGDPPALASHVFKR
8539	22440	A	8601	2	214	HVDVVMGTFAILSELHWDMLHVDPENLR LLDSVLNCELANHFGTDFPPVQAAYQK VVADVANALAHMYH
8540	22441	A	8602	89	181	GLRHENRLNSGGGCSEPKLCHCTPAWA TE
8541	22442	A	8603	340	57	KEGHQEMEQAEQDGHHGRKAPGTSPWTLG ELPKSARGHTGLFVSYRGCRTQFRFKKV LFGGDRNRGLAMPLPRLVLNSWPQEILLP QPSKVQGLQK

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8542	22443	A	8604	330	132	TGFLHVGQSGLKLLTSGDLPTSAFQNAG ITGGSHCTRPFSLFHSYLVLFYGCSSSQ VSLSILARM
8543	22444	A	8605	546	279	RPGPTVSPRLECICMIMAHCSLDFFPGSG VSPTSASRVARTTSTHHAWLIFYSSVE TGSHHVQAQAGLELLGSSNPPIASQSAG ITAL
8544	22445	A	8606	3	249	NRFNLGSGGCSEPRSHHCTPSWATEQET CITYLEYCFPPVSHTNLVYFKPLNVTIR SDYCILGLHASSIGGSDSLIIDCWD
8545	22446	A	8607	159	324	VIQYRTNINLHLHLCEVLVFWFLPYFFLK KTYTGIGQMRWLTPVIPALWEAEAGGS
8546	22447	A	8608	334	179	TGFPHVGSQGLKLLTSGDLPTSGSQSAG ITGVSHCTWLEVYFLNISIYPS
8547	22448	A	8609	278	202	QQPSTLRQDPACKRLHLSEGSDGH
8548	22449	A	8610	236	66	AASTFFLQKIKRHLLSGTVAHACNPSTL GGRGIRISRGREFKTSLGNMVRPRVYKK
8549	22450	A	8611	29	177	GKQVMALHCIFFHFFFRRSLAMLPRLV SNSWVQEILPPWPLKVLELQA
8550	22451	A	8612	1	215	HTSRTLTVHLRLKFNKYLIEWGLSMLP RLVLNSWAQAVLPPWPSSKVLGITGMSHC TWLYLHLSTDLLKLC
8551	22452	A	8613	3	91	LRHGNCLDPGEGGCSEPRSCHCTPAWVTE
8552	22453	A	8614	2	167	FTISLLGILVDRSLTHHINNIKPSFTRE NTLMFIHLSPILSTRKQLAIQHLSRLE
8553	22454	A	8615	2	281	FCILVETGFHVCAHAGLQLLSSGNPPAS ASQSVGITGMSHCTSPLNLSLLTQSKSFC LLIQNHNPYAFINSQLTFSILFLLSYIFI FYDSLFLF
8554	22455	A	8616	282	182	GQAWWLTPVIPALWEAEVGGLLEPRSSR PAWST
8555	22456	A	8617	379	207	SNQTTKKYINFVVEMRSHYVAQAGLKF LGSSNPPTSASQSASITGISHYVWPISP S
8556	22457	A	8618	705	483	DKSFALVARAGVQWHLGSLQPLPPGFK QFSYLSLPSSWDYRHAAPPANFCILSR DGVSPCPWGSRTPDLR
8557	22458	A	8619	359	220	RQSLTMLPRLVSNSWAQAIIPPPWLSRLL GLQALAPIPGKSYNEKTP
8558	22459	A	8620	3	186	HEVSVWKRKQDEWIEFDDDTVSIVAPED ILRLSAGGDCHIAYVLLYGPRRVQILEE ESEQ
8559	22460	A	8621	1	116	GTSFCRDGGTLVLAQLGSSFWPQRILPP WPPKVVELQA
8560	22461	A	8622	369	188	MYSLEMGFIGNGHAGLELLASGDLSALA SESAGITCMSLRYTRFSFKRATCGDL SLQS
8561	22462	A	8623	202	22	YILGFYFMPVICYQERKKDKKNWEVTII MSFVGICMELGAIILSKLMQEQTGYHI FSQV
8562	22463	A	8624	387	315	SNLGGGGCSELRLCHCTPAWATE
8563	22464	A	8625	2	135	TRDLCSSLVYLLTFPPLLSDPAKSPSVR NTQELSINKKKKKGRPF
8564	22465	A	8626	3	232	HASAFEEPVYIKSRQKRKESNPPKLVSS QPHGLKKKKKKKKKKKKRGRGLKKKK KHNNKKFKKGQKKYNFGRGAF

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8565	22466	A	8627	97	373	QHGFLKKKKKKKKKKKKGGPLLKKPLG GPNFTGDKKKFFPKKGIGKKPGEFLK KNLFLGGKKNGKNPPKKLNPLGEKKNFK GKKGKNNPP
8566	22467	A	8628	2	188	RYGCPPPYHTFEFPVYIKSRQKRKEWNP PKLVSSQPHGLHDFFKKKKKGAAVLKD PSGGPS
8567	22468	A	8629	287	68	GEEGRTQKGERNGGGSERKEGEHEAR RTGRGEGGGEAKGRPRSRARRGRGSRG SKSQTPSRLPAHIITN
8568	22469	A	8630	364	136	VSLLLGLEYSGTITAHYSLNLLLFISET GHYVAQTGLKLLGSSNPPTSDSQTFEI TGVSHTGAQPKVQFWSKNLNDT
8569	22470	A	8631	355	70	LFPPRFFFPSPLSPLKFFFSPKGFNFF REFFPIFSPPKRKVLSKNSPGGFYKPLL RGKIFTFPPPVGFGPPRGLFKGPPPPFFF FFLFFFFFFLVI
8570	22471	A	8632	2	266	AFTISLLGILVYRSHLISSLCLEGTIL SLVIIATVITLNTHSLLANIVPIAILVF ACEAAVGALLGSGISNTYGLDYGHINLN LLQC
8571	22472	A	8633	1	186	LTHHHINNIKPSFTRENTLMFIHLSPILL LKKKKKKKKKKKKKKKKKKKKGGALKKK PGGGQNN
8572	22473	A	8634	2	80	VLEIAVALIQAYVFTLLVSLYLRDNT
8573	22474	A	8635	713	333	EGPPPPPRSKKGQTQGGGKDPPSPPEPKT PGNPQGRKTGPPPPGRPYTGPRPPGSGP TRGGGSRSSSSNTNAPGEKIFFSKNPGR KIFPPRAILVFFSPFLKNFFFSLRLLI FLGGCAPFFFFPK
8574	22475	A	8636	389	1	FIFSFLFLIIFFFLNINFFFFYIFSSLSF FFFLNFNLLLKHTPPIIILFFFSLSPIFF FFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFGTTKKELY LLRARGCKQYKNQKLIWYLTF
8575	22476	A	8637	2	192	VRTLGLRTDAIPGRILYQTTFTATRPGVY YGQWYEICGANHSFMPIVLELLALTIFE IGPEFTL
8576	22477	A	8638	1	87	PTRPLEIAVALIQAYVFTLLVSVYLHDNT
8577	22478	A	8639	2	132	INLASTLIIIFTILLLTILEIAVALIQA YGVTLVSLVSYLHDNT
8578	22479	A	8640	2	113	LFFFIAEYTNIIIINTLTTTIFLGTTYDA LSPELYTTY
8579	22480	A	8641	375	22	FIFISPLAYLFFLPFPFFFIPPLCFFFF IPLFFFLFLSFLSLIIFLFLSLILIPPS LFFFFFFPFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFF FFFCWLPHRVMIAKVGISVVSKKI
8580	22481	A	8642	180	34	WFISDSLWLGMAHTCNPSTLVGQGGWI TCGRSRSPVPKRTPSQTCAPA
8581	22482	A	8643	338	133	NLPLGLFYSLQKKKKKPFLRPGTILGAPK GNFGQGAPPFLFGKFAGFFFFFFPFFFF FFFYGFffffFLK
8582	22483	A	8644	156	287	LTYPIKPLLCSQKKKKKKKKKKKKKKKKKKKKKKGGAFKKNPWGAQI
8583	22484	A	8645	1	325	LHHCHTHNFVNKVVCFIRKKKKKGKKKK

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						KKREKKKKKKKKKKGGPLKKPPGGPK FSGGGKKKIFPQRGGYKPPPGGFLGKTL FLGGEKMGENPPKKIKPLGEKKKF
8584	22485	A	8646	370	3	PVRASRLLCLPKQAWAMAGAPPASLPP CSLISDCCASNQRDSVCGAPS PGAGYN LVMHCFLSPSEKHSIWGVTRFSRCPS PLSLTRLRKGNSLTPCASQVRQCLALLRLV OGAGTHRTRG
8585	22486	A	8647	341	88	KKKKIFSPPIKRGPPSVYFICPPPPFFFF FFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFRMGCDRWHGELYNKI PIWHKLCGDL
8586	22487	A	8648	1	108	PTRPRTRGVASVLYFTTILILIPPTISLIE NKILKWA
8587	22488	A	8649	3	96	EICGANHSFMPPIVLELIPLKIFEIGPVFTL
8588	22489	A	8650	457	297	SPSFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFFFFFFLFYFALF FIYLIKDNYMFQC
8589	22490	A	8651	84	352	YEKTDVKIIISILFNTDYMLEYNVHLILG QIKMLLISKKKKKKKKKKKKKKKKINK FFWGGLILTLGIVLYSPEALKISPSFGFLEK
8590	22491	A	8652	2	111	NNIKPSFTRENTLMFIHLSPTLLLSSLNP DIITGFSS
8591	22492	A	8653	1	305	RQQQQQQQLRNLRDFLILVNRMTTELFCQ RCPVSLSHRALDAEEEAICLHSAGKLKH SNHRLMAAYVQLMPALVORRIADYEAAAS AVPGVAEEQPGVSPSGS
8592	22493	A	8654	129	268	LSEVLYLFPPKKKRLLIILCLFFRNPNGSS NLQKITKEPIIDYFDVQD
8593	22494	A	8655	281	117	CTITLSFINTLQAYIIIWLVVFSEVCLYV SLSIYLSIYLSIYVFEYRYIKISFH
8594	22495	A	8656	3	177	DLHAHKLGVDPGNINLNLLSHCILLETLAGH LPGEFTPAGHAFLDKFLDFVSTVLTQYKR
8595	22496	A	8657	3	270	RRRGRAHCSLDLLGSRNPPASASRVAVTTGTRHLAWLIVVGGFLFVLRDVLVRFH ATDKDIPKTGQFTKERGLMDLQFHMAGK ASQS
8596	22497	A	8658	107	11	QEHTKPTPFLPTLIALTLLLLPISPFILIL
8597	22498	A	8659	21	136	VPIEHDPVPVNSRAELLKMFgidRDATAQAVRGLITKA
8598	22499	A	8660	1	395	LTVALTSLYIFTTTQW GSLTHHISNLEKKKGKGKKKKRGGALFKGIFEGGSHF FGVWELLFFFLLKGIGKKTILGFLGKTLF FGGGLLGAPLPRKIKGLREKKNFKGELGVKN RVFFFFFGNSSLGVYLKKY
8599	22500	A	8661	1	255	RTRGRTRGRTRGLTRGK KKKKKKIMKKKKKKKKKKKKKKKKKGAFKLKNPWWGPPIFWGLPKFYFLPNKGSFVNLLIGDFLKRPFFWGGA YFG
8600	22501	A	8662	136	358	FHIVKGVSIIKFKCVILKKKKKKKKKKKKKKKKKKKKKKKKKGKLLKKKGKKKKGGK NKIFFWVGFFYKRVWGYF
8601	22502	A	8663	198	368	LINLVQFTCILGTLLGILFITYLFLRRAI

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						TMLARLVLNSWPQAVLLPQPPKVLGLQAA
8602	22503	A	8664	407	82	KFLPHLGFPFFKRFFIKKEPFQWFFFNF GFFFRRSFFLPLPRVQCNGAISGPCNLC LNVKVRSLFSKKKKKKCWDYTTFEPLCPAL HFSFINKTEDCLFVCFTVYWPNGF
8603	22504	A	8665	166	293	KIIAKHNIAARTNPYTFICIMKKKKKKKK KKKKKKKKKKKKKKGGAL
8604	22505	A	8666	1	164	RAKAKRRNTTIVSCRMRHLKIVYRRFRYR LYVGIIIGPGGLNETLVFTCKKITVP
8605	22506	A	8667	295	85	YIYMSHICLSSLSSIYKRVKCFCFFKT WSHSVAQAGVQWRDLGLSQPPPKWILC ISVFFTFLVMKKN
8606	22507	A	8668	2	131	INLPSTLIIIFTILLLTILETAVALIQA YVFLLVSLYLHDNT
8607	22508	A	8669	423	107	HCALPKKKKKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKK
8608	22509	A	8670	432	301	SQILGRFSQKQHLSLGGGCSHPRSCHC TPAWARGRLRLKKFIK
8609	22510	A	8671	1	106	LKLITSSDLPASASQVAEITGMSHCARP LSRIYMC
8610	22511	A	8672	383	252	CPANFVFSVEKGFLHVQAGLELPTSGD PPGCWFCLQQQLHW
8611	22512	A	8673	560	135	SSWGMDSIPTSSNMEETQQQKSNLLELLHI SLLIESRLEPVRFRLRSTFTNNLVYDTS DSDEYHLLKDLEEGIQMLMGRVEDGSHL TGQTLKQTYSKFDTNSHNHDALLKNYGL LPCFRKDMDKVETFLRMVQFRSVEGSCGF
8612	22513	A	8674	2	326	SLLMCVHRCEVCVMRACLCAGVCMCIAS CLGLPMNVVCEYTWRVLVFHQFQDEELH DTVLDLETIPLERQPRDVQHPVSTRILYL HVYFVAVTTLIRILQLWTEAFSP
8613	22514	A	8675	171	272	TQCCLLKAEEKKKPKKKPKKKKKKKKKKK KGGP
8614	22515	A	8676	60	409	LWVLESCHEDVGPLIKDSKQEKKKKKKKK KKKKKKKKKKRGAFKKKPGGGQNLRG GEKKNFFFRLRGEKKNPRGNFGKKTFFWG GENWAKPPPDKKSPEGKKKILKGKGGKK YLNFLGE
8615	22516	A	8677	106	286	LFWNKEGNNWKKKKKKKKKKKKKKKKKK KKKKKKKKGGALLKISGGGPIFPGGGKN FFFFFGGGF
8616	22517	A	8678	1	97	ITGQVASVLYFTTILILIPTISLIENKI LKWA
8617	22518	A	8679	1	141	NEHQPGQHGEMPSLLKIQKISWAWSMP VIPATQEAEMEKESQISIM
8618	22519	A	8680	499	140	GVFFFSRRKRCGVSPPPPPKPVFFPLPG FFFWWGGCPSAPPNGGGFPNPPRGFF YPPPLKGNNFFFFPPAGGGPPRGFFWAPP PPFFFFFFFNNNNNNNNNNNNNNNNNN FFFFFFS
8619	22520	A	8681	60	224	KOTKYIKEITKHICWTQGRYHDHEGGFP RVKLIHCTPDMLTPVISPVDVNSTTV
8620	22521	A	8682	252	383	SQXXXXXXXXXXXXXXXXXXXXXXGGGL LKNFWGGPNLTGGGKI
8621	22522	A	8683	405	145	KFFFSGGCFWWGPPGKVNPPPKMFFF LIPPPKKKPPPKIFFFFPPGVFFPPP PPFFFAPPFFNNNNNNNNNNNNNNNN

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						FFF
8622	22523	A	8684	1	406	LYYFLTKSTTYLAVPQPFPPTPSTPSR AKKKKKKKKKKKKKKKKKKKKKKKKKKKKK KKKKKKRGGGPKKKTRKGGGGQKKKGR GPEKNRGGETTPGEKKKKKGGGGKK KKKSGGGKNGKGPGRGGGGGGR
8623	22524	A	8685	391	265	GRFFFFLDGVSLLLPRLECSGVILAHC NLCLPGPSDSSPA
8624	22525	A	8686	2	177	DTALYSLYIFTTOWGSLLTHHINNIKPS FTRENTLMCIHLSPILLSLNPDIITGF SS
8625	22526	A	8687	479	366	GLPKCWDYRREPPHPAANFCIFSRDGVS PCWPWGWSCL
8626	22527	A	8688	35	161	SNPPSSAFQVAGTTGVRHHDLQTLFFF FLGGTGQILCRGGD
8627	22528	A	8689	1	122	THHINNIKPSFTRENTLMFIHLSPILL SLNPDIIITGFSS
8628	22529	A	8690	2	152	NIILAFTISLLGILVYRSHLISSLCLE GIILSLSFIIATLIIYPTPSFSCY
8629	22530	A	8691	541	85	IFLRQFLSPRLEYSGVIKAHCSDLNLGS SDPPASAFKVAGTTGIRHAWLIFVFFF AETGFHYVAQGGLELLNLRNLPATAFQS AGIIGISHHDLLGIQITTWLLQKLSYLQ KICKDQETGLHAFHLHPYPYPPMPSSP QLLQGPDIILTNG
8630	22531	A	8692	122	38	GRVDHSFMPIVLELIPLKIFEIGPVFTL
8631	22532	A	8693	276	77	GVSPCEPVFFFILGRCNPPAWGVPKGRD FFVLSFFFVVFYILLFFFFFFFYFFLF SFYCFNGNSNK
8632	22533	A	8694	3	70	FMPIVLELIPLKIFEIGPVFTL
8633	22534	A	8695	230	3	GSGIPSHPGHPSLPYHLEREWLAKTGIR DTSNVSHLLELCRLSQRHGGRARWLTPVI PALWEAEAGGSRRQEIEPI
8634	22535	A	8696	401	240	PPPPPPPCGSEPRPPHESLSPPGSREMF VLALSQESQMFFFFQLRKKLHLYL
8635	22536	A	8697	103	313	EKKKKKKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKGGGGPKKKFEAIFGKTP GGVSQGGGPPPLNFNNPGPPFF
8636	22537	A	8698	354	110	KKGTLEFEVSESFTTEGVSAKINRIRSI VSVNVHVARCIGEIFTDAVQSAFQKEVGG VSDSMVHKYEYAGCVDVKAVCASHGL
8637	22538	A	8699	2	164	FLVETGFLHDGQAGLKLLISGDPPASAS QSAEITGMSPHACNSSTLGRGGGRIT
8638	22539	A	8700	191	371	PPDSRWATQGGHLELTPTTRQDLAQAPR RKLALLEGSFQGQAQWLTPVI PALWEAE ASGS
8639	22540	A	8701	2	170	ARAGLYHVGQAGLKPLTS GDPLASASQS VRTGVSHRTTRPKIIFKLIFLFFFFF
8640	22541	A	8702	31	229	MEKYNVHPHSGILRSHEKEQAALFTIAK RWRQPSYPSIDEWINIMWSSHTVEYYTA MKRNKOLYSQ
8641	22542	A	8703	3	126	LQELRDPTLTFRLLGSPRPVVVETRPVD DPTAPSNLYIQE
8642	22543	A	8704	438	31	SEPCAGYNLLVCRFLSPLEKHNI RVGVIT RF SRCHLSPLSLTRKGNSLTPCTS RVRQ CLALLWLAHSALHPLSCMHCLALPSEM PVPQMEMQKSP IF CIAHAGSCTPELF GH LGSTPLTHLSSLRINVFLRTSE



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						NHCYLYFYQGHIKTTRSLLPPP
8665	22566	A	8727	85	425	HMHSFAHELHTFLHTHTNSHTNSQNQSP TYTSKSHTHYSYMRFTDSHDSQMQQTHRHS SLLHMTQLYTCTHTHTHTRTVIPLHLHS VKGWLNTKVALGGRTSHGRESHIAGRLL A
8666	22567	A	8728	393	124	LGSGEPEQLFQSPPSGGPGPKSHWNNG NANNPVPPYIIIESAPPPHFPGAQSKY SGQAARLCPCPPFFLKKKKKAPGSQT GTFSFO
8667	22568	A	8729	25	217	AVQPIRVQWRRSLQSPQEQQTILAPSLAK VDMEMTQLTQEADFAATRDRYHHSSLVN REQLMPHY
8668	22569	A	8730	1	611	PGIFYSALLSLDTSILNQLCFIMHRYRK NLTAACKNELLVQTKSEFNFSKTYQEF NHYLTSMVGCLWTSKPGKGIVYIDPEIL EKTGVAEYKNSLNVVHPSFLSYAVSFL LQTSSSSSSSSSSSSSSSSSSSSSSSSSSSS SSSSSPSPEERTVNVSIRGKKWSWYLD YLFSGQLQGLKLFIRSSVHHSSIIPRAEG INCNNQY
8669	22570	A	8731	120	378	VEKTQASILGCKCSTPRAALGFRERTLP LRRCPCCGPPEAQMELEKRALGSQAQWL MPVFALWEAEVGESLEARSFETSLGNIA
8670	22571	A	8732	2	68	VYVCVCVCVCVCMCVCRAKVG
8671	22572	A	8733	382	258	NYHSSLHLETGPLKQSSCLSLPKSWDYL HESPCPALIFNLS
8672	22573	A	8734	479	326	PPLYGFFFFFFFWGGGFFFFYYFFFF FFFFFFFFFFFFFFQTTF
8673	22574	A	8735	422	2	GRRPPGLYFFFFFFPGKKNFQGRGGFLFF FPPKGFFFFFFPIGFFFFFSSSELGKDWP PPKKVFSQRFPFFFFPPPLFLFLFFFFFF FFFFFFFFFFFFFSFFFFFFFFFFFF FFFFFFFFNKQVFIERLLCARHCFRPPAS
8674	22575	A	8736	7	75	IAVALIQAYVFLLLVLVSLYLDNT
8675	22576	A	8737	2	176	NFGLLAETGFLYVGHAGLEVRSQGDLP SASQRAYITGVSTAPGFNRYFYKQTIYK YG
8676	22577	A	8738	408	111	GSSPPPRAGGENFLKKNAGGKNFPGGE GGFFYPLYPKKFFFSPKGFIIFWGGGGK WPPPDKGGFSKKPKVFFTQPKKKKF WPPGGNWGPKNF
8677	22578	A	8739	5	249	YEGLKKLHMQASPFPQRGHPVNHKKKKKK KKKKKKKKKKKKKKKKKKKKKKKKKKKK EGALGGKFLAQTSFKGEKQKVFIKY
8678	22579	A	8740	1	226	FFLRRQSLSVTQAGVQWCDLSSLQLLAFQ GSSNSPTSASQVAGITGVHHHIQLIFIS LVETGFHVAQAGLELNQ
8679	22580	A	8741	4	96	DGLJMLPRLVSNSWPQGILPPWPSKMLG LQV
8680	22581	A	8742	19	112	FGRILLVREKKKKKKKKKKKKKKKKKK GGGPL
8681	22582	A	8743	362	234	KMDQKCLSEVILQRWFPCCCCCCCCCCCC CCFSLPFIFEPESR
8682	22583	A	8744	3	419	LTLRRFQLNLALTALKKKKKKKKKNLKKKK KKKKKKKKKKKKKGGPLFKNSLGGPIFPG GGKFIFFFFFWGGLFLKPPGDFLKKTFFLG

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						GEIFGPPPKNLTPLGKKKIFKGVGGKN PPLFLRRKKFFSGGFFKKIFSPGLGF
8683	22584	A	8745	444	1	KKPSKEILYPENSRSFFSPLSPLKFFFSP KGPNFWGGGGPLCPPPKERFFSKNPPGG FFSPPLEKEKIFFFFFFPVNLGPPRDLFKG APPFFFFFFFLWEMFYWLSSLSSGSQR LPQQVPTVEPSELGGMGAYFVSKRSTYL QRGWRPER
8684	22585	A	8746	104	222	NKTFCLLKKKKKKKKKKKKKKKKKKKKKKKKKK KKKKKNWGGAL
8685	22586	A	8747	403	201	MEKYNVVQPHSGILYSHKEQAAFLPIA KRWRQPSCLSIDEWRNIMWSSLTVEYYT AMKRKNQLYSQ
8686	22587	A	8748	1	90	RTRGAVYAALEMRMGLDGCVEDLRSRLQR GP
8687	22588	A	8749	444	85	SPPPPGLFFFFFFPKKTSPPPTKKGF SPPPPQKFFFFFFLKPFPLGGGLGPNFPPP KKNFFSKNPPRFFFFPPPKKKNFFFPPP FFFAPPKFFFITPLPPPLFFFFFFFFFS FFFFFFFL
8688	22589	A	8750	2	309	EFFPPYWEFLKINACMFSPEKKKKKKKK KKKKKKKKKKRGPPPLKKTPGGPQIPRGK KKIPLKGGQKPPRGFLEKNPLFGGGP FGPPPPPKINPPEKKKNF
8689	22590	A	8751	3	76	TASVSEGGGLQGITMKDSDEEEEG
8690	22591	A	8752	433	145	SFFFFFFFSSFFFQKKSSFFTPL
8691	22592	A	8753	2	124	GHLMHHLIGSATLAISTINLPSTLIIFT ILIKKKKKGRPF
8692	22593	A	8754	80	201	FINANSKKKKKKKKKKKKKKKKKKKKKK KKKGGGGLLKKTPGGAQF
8693	22594	A	8755	415	1	IYFPTEKFGPPKETLKKGAPFFFFFFKQ KFPPGPGGKQKGFGSLQTLPPGKKKI SRPNPPRKGFKDAPPPGKFKVFLKKKG VFPGGGQGGFKTPTPRDLAPPAPLNPGAL FFFFLRQSLSLRLECSGTILAHAS
8694	22595	A	8756	3	136	FTATRPGVYYGQCSEICGANHSFMPIVL ELIPLKIFEIGPVFTL
8695	22596	A	8757	80	326	KKFSLGSQGGRAGVFPRPPLGKLQTTAL NSGAKGTPPFLFPEPRKRGGPPPAPGW GIFCPHFFPMQGKGEGLWHTGEGPH
8696	22597	A	8758	1	164	SLISSTQGHKQCCRPPQGPLPRKTRDCPS HVYLLTFPPPLSYDPAKSPSLRNTQE
8697	22598	A	8759	431	79	FFFFFIFLKKVSTQSPPPQFYFFFFFLKT FFLFQPLLKEGGSGWGRGDKPPPLAPFK KWGVFFFFFFSFCCFVFFFFPFLFFFFFFF FFFFFFFFFFFFFFFFFFFFFFFFF FFFFFFPRCVLTRL
8698	22599	A	8760	60	194	ARPTCPATAVTQKKKKKKKKKKKKKKKK KKKKKKGGGVLKKKQGGRKY
8699	22600	A	8761	383	38	CASMTFPKKKKKKKKKKKKKKKKKKKK KKKK
8700	22601	A	8762	399	164	HITVKSLLVPMDDPKKKKKKKKKKKK KKKGGGFKKLNWGGQKLJGEKKKIFFF LKGGKKPLGIF
8701	22602	A	8763	353	48	NFFFKVFFFFLKDISHKGAPPKKGGPPKK TPPRKKFFFFLKIKPLFFFIAFFFFWSLFG FFLIFSLFFFFFFFNNNNNNNNNNNN FFIVFTITLMHFK1Y1H

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8702	22603	A	8764	2	93	FAMLPGLVSNNSWPEATCLPWPPKLLGLQ MM
8703	22604	A	8765	398	63	PPPPVFFFFSGGGFWGGGGQKSPPRER CFFFKMHPGFFYIPPFVGKKVFFFLEGV VCPLGFFLSSGAFFFFFFFFF FFFFFFFF FFFFFFFGFFFFFFF FGFPSVSHL
8704	22605	A	8766	3	83	ILEIAGALIQAYVFTLLLVSLLYIHDNT
8705	22606	A	8767	450	306	QKKKKKKRNPKPEGLGTVAHACNPSTLGG RGRWITQPGQQEGNFISKY
8706	22607	A	8768	1	111	WSLALVAQAGAPGFQFQSCLGLPKSWDY RHEPPCPGL
8707	22608	A	8769	385	261	FLAEMGFCRVGQAGFKLLNSGDPPASAS QSAGITGVIAPIVL
8708	22609	A	8770	3	293	SLGSKPLGLLSLSPVWKFRIFGKERNKV WGKDGGTDRNQSSAFKHLQRGDSDPKQ NIKIACSSSKFYLRRCVKRSFLLIKKKKK KKKKKKKKKKKKKKKKK
8709	22610	A	8771	2	281	CVCVCVCARVYIYIVYVYICIYTYMCVY MYICIYIHVYIHVYTCVYVYIRIHYMIC ICVCICYTCIYTYIYTHTYKHSVYYLHNF YINPKLLQS
8710	22611	A	8772	295	161	THTHTHTHTHTHTHTHTHTCSLPPS LAQLGNCCIKAISILYIL
8711	22612	A	8773	1	318	FFFVFRWSFTLVAQARVQWRDLSQPL PPGFKQFSCLSSLSSWDFRHTPPCLANF VFLVETGFLHVQAGLELPTEGDLPALA SRGAGITGVSHPQPPLCFLFL
8712	22613	A	8774	3	70	FMPIVLELIPLKIFEIGPVFTL
8713	22614	A	8775	369	191	TYKINKIGWAWWCAPLVPAAWKAEVEGL LEPGSLRPASVIQQDPHLKKGTYSRVLT THL
8714	22615	A	8776	2	124	GFRHVGRAGLEFLTSGDPLASAFQSAGI TGMMHHVQPIVE
8715	22616	A	8777	1	162	LKYTTADENGKTSRLLPQRPSDECAGAV FMASHFDRHYCGKCCLYCFIKPEDQ
8716	22617	A	8778	346	138	YNSSPYKEKTIPLQARVNFGPPRDSLKR PPFFFFFFKROSLTMLPRLVLNWAHGI LLPPPPKQVQLQA
8717	22618	A	8779	2	117	LNLDTTAVQVRNYPRIRESYKVSFLSAL EETYKKLNTQ
8718	22619	A	8780	2	97	WDLTMLPRLVSNNSWAQVILPSWPPKVLG LLA
8719	22620	A	8781	403	276	IISTVFGRCSCPIPISRKEVCSERPRLQ KDSLTGFPHTVYKH
8720	22621	A	8782	2	119	QAGLELLTSSDLPASATQSAGITGMSQR ARPHFQCKNVP
8721	22622	A	8783	245	101	ELQFKMRSGWRRSQPTISWGLTLVPRLLIS NSWAQVILLTWPPKVLGIQA
8722	22623	A	8784	2	124	AKLEKKKKKTGRAKRRMQYNRRFVNVP TFGKKKGPNANS
8723	22624	A	8785	3	355	VGPSEPGAGYNNLLVCRLLRPLEKHGIRV GVTGFSRCHLSWLPLARKGNSPTPCASW VRHHLALLRLTVCGLHPLSCTHCLTSPS EMNPVPQLEMQKSPVFCVAHAGSCRLEL FLFGH
8724	22625	A	8786	238	9	PVKLGAGPPQAPFWLRKWAPLIKPFKKG PIGSLQIPLFFFRLRQSLTLPPRLECSAT



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						EIETILAGAGKPRLY
8746	22647	A	8809	259	134	IYMIFKNKFFNRDRGLPMLHRLVLVNWQVILLSWPPKVGL
8747	22648	A	8810	391	193	VLPKIPGIQFPPPCKRPRPRFKPPPKRKKISFSNPKIWPQQGYFKRGPPRLFYFFFFVVIL
8748	22649	A	8811	304	3	TTPTPTNIFFCFLFFFIFIFLWYFIFIFFF
						FFFFFFFFFFFFFFFFFFFFFFFF
						QCFIGHDDQKMVMHTHTQTSSHLLQGGSNPQKGQSPGWVLWCA
8749	22650	A	8812	395	268	FLVETGFHHVGQAGLELPASSDLPALTSQSAGITGVSHHGWS
8750	22651	A	8813	782	1174	LSRLFYFCVLFCLYMKTTQLPYFRGLVC
						LFVLRLQGLTLSSRLECSGMIAACCSLN
						PGSTDSPSTSASRVVRTTGVVRHHTQLIFV
						CFVEMWFHYVAQAGLEPLGSSSPPALSS
						QGAGITDVSHHTPLELCF
8751	22652	A	8814	95	236	ATMPGLKNIYFLKNKDKGTLTMLPSLVLK
						SWARVILLPWPPPKVGLGLQT
8752	22653	A	8815	381	58	SCLLFPPFWGARGGGPRAGGSNPPGP
						GLTPFPKKPKNYWARGGGPFI
						PPREGWAGGFFLPRRRGVPLAPGSNNLEGPLP
						SPPGYQKKTPFSKKKKKEKKKRKR
8753	22654	A	8817	441	158	FFFFLRRTDGYLTMPLRVSNWPQAILL
						PQPPKMLGL
8754	22655	A	8818	415	342	RLVLDWSAQEIILLPWPPKVGLQV
8755	22656	A	8819	400	171	NFFFPFGVKFLGGGGPQFPQPKRGFFQ
						KTPGGFFKPPPKKKKKFF
						PPPKIGPPQGIFKKAPPFFFFFF
8756	22657	A	8820	2	268	INITIALFTISLGLILVYRSHLMSSLLCL
						EGIILSLFIIATLITLNTHSLLANIVPI
						AILVFAACEKKKGGAVLKDWPGGQSLR
						VLAR
8757	22658	A	8821	2	258	LCLPNQAWAMAGSPPPASLLPCSLISDC
						CASNQRDSVGVGPSEPGVGYSLVVRRFL
						SPSEKRSIRGVTRFSSWVRLRTVIPAT
8758	22659	A	8822	250	456	GGGDKFGLIETFPPLKPFLLNLSGW
						ELGPLAPPPFKFCFFKGRGFPFLPRFVF
						VANLLLTCCKKRD
8759	22660	A	8823	492	376	QENCCLNPGGRICSELRSCLCTPAWATER
						ACLKKQNKTNQ
8760	22661	A	8824	1	116	LTPLPPSAPPSSVDDNLKTPPEWVCSLPF
						HPORMIIISRN
8761	22662	A	8825	2	191	FLVETGFHHFGRAGLKLLNSGGALTSAF
						QRAGITGVITGVSHCFEVNRWTGTQYFLCYILKS
8762	22663	A	8826	393	75	PRFPPPPPKI
						FFFFFFFFFFFLLGGFPPI
						PPPKNFFFFFFPKPPPGFFFFPPLKKKIFF
						PPPPFFSPPPNFFF
						PPPPPPFFFFFF
						FFFFFFFFFFFSI
8763	22664	A	8827	81	380	KIITKHNTARTNPYTFCLIMNYLKKKKKK
						KKKKKKKKKKKKKKKKKKKKGGGPFLK
						NPGGGQNNPGGGKKNFFFFFFFGGGKKNPPG
						FFKKKPFFGGGKFGAPPPPKN
8764	22665	A	8828	354	13	TKPKTPPLTKGPRRGFLAPRVPGGGGP
						TPPPONFLGEKGTLARKKVFPGRPAPK
						RPPRKNGFEMRPLKKNGPGPWKFGLGF







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8827	22728	A	8891	32	142	VRPTRPQVAVSFLYFTTILILIPTISLT ENKILKWA
8828	22729	A	8892	3	382	TPHNPLSRPSYEKPKPASTPSRAPKKKK KNPKKKKKKKKKKKKKKKKKRGGALLKK LGGPKLPGGKKKNFFFRRGGKKPPGDF LKKTLFIIGGGNLAPPPPCKKNPWGKKKI FWGE GGKKNFFFG
8829	22730	A	8893	368	199	KKKRISPPSRKRAPQGDFLRPTPPPIKNL YYLSSFFFYLILYIFFFFFFFFFIFFF
8830	22731	A	8894	3	136	TINLPSTLIIFTILQLTILEIAGALIQ AYVFTLLVSLYLDNT
8831	22732	A	8895	1	144	IATINLPSTLIIFTILILLTILEIAGAL IQAYGFTLLVSLYLDYPYN
8832	22733	A	8896	153	375	PQKKKKKKKKKKKKKKKKKKKKWGGGF LKNSGGAPIFGGGGKFFFFLGGGFKTP RGFGKNPFFWGKKKKN
8833	22734	A	8897	332	400	WLTPVIPXLWDAAEAGGSFEVRSS
8834	22735	A	8898	215	359	TELVPNAVLFCPLPCSSGHLLCAIHAK RVTIMPKDIQLARRIRGERA
8835	22736	A	8899	414	73	PRLCFHKKAWAMAGALPPALLPPYSLI SDCCASNQRDSVGVPSEPGVGYNLVVR RFLSLSEKRSIRVGVTRFSRCCPSPLSL TRKGNSLTPCTSRLRQCLPLLWLAHGARTH
8836	22737	A	8900	374	88	VSPPSPLKIFFSPKA FNFWGGVGPHFP PPKRVLPPQKPGGFFSPPLKKKFSFPP PVKLGP PKGSFKG PPPFFFFFFFFFFFGL DFMYTGSSNVW
8837	22738	A	8901	433	56	PEGPPPPGGFYPGKRGFFFPTPLVVFGGP KRDP PPPRKGKKNP SWRSGGKQT PRFPRDP LLKTAFFPGGPPQRLGKAQGPFWFFFGP KGKTQTPGPPFFKKLGDPWGPKKPPPG GAPRLGP KKKFL
8838	22739	A	8902	3	73	IAVALIQAYVFTLLVSLYLDNT
8839	22740	A	8903	3	149	PNLSYIIGKDTWVEHWPEEDECQDEENQ KQCQDLGAFTESMVVF GCPN
8840	22741	A	8904	351	137	FPPEFFAAPKKS GILFFSKTWMEVEVL FLSQLMLGQKTQYCMFSLINGRLIIKAPG SLKGDH HPPGLLLEG
8841	22742	A	8905	142	5	KIFLQKKKKKG LGLTVAHACNPSTLGGQ GGWIMRSRDQDHPGQQW
8842	22743	A	8906	367	244	HVPQARAKFFC IFSRDGVSPYWP GWSRT PDLMICLLFIVEL
8843	22744	A	8907	146	248	SQILGRLRQENCLNLNGGCSEPRWCHF LAWAKE
8844	22745	A	8908	2	197	AAA STHHARLFLCVCLFAYLLVEMEFHH VAQAGTELLDSSNPPLASQNAGIIGMS HHTQPQYIC
8845	22746	A	8909	1	127	KKTRLERAQWLTPVIPA FWNAAEGTLL EARS LRRLPWPPNVL
8846	22747	A	8910	368	280	LTMILLRLVLSWAQATLLTWPPKVIGLQA
8847	22748	A	8911	355	211	QQQNLHLFWPGTVAHTRNSSTLGGQGMR ITGAYEFETTLLGNTARPHLY
8848	22749	A	8912	325	190	KKKKKKGGGGPKKKKKNNPPPPTSKKKK KKKKKKKKKKKKKKKKKKKKKKK
8849	22750	A	8913	1	411	VNVPA PRGGAYRGRQASFSSGLHPVPA

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						YRPLCLPNQTTNSAMAGAPPLASLPPCS LISDCASNKRDMSGVGPSETGTGYNLL VCHFLSPLEKCSIRVGVTFRSRCRLSP SLTKKGNSLTPCTSRRCLALLRL
8850	22751	A	8914	258	9	GAIPCLHCETNPSHISSTQELQTPEPOL PGVPLELPPPGSCFKCRKSGHWAKECPQ PGIPPKPCPICAAGPHWKLCDPTGPRL
8851	22752	A	8915	326	42	EKIKRKYFCYSFFVFLVEMGFYFVGQAS LKLIASSDLPAASPQSARVKAMSHCVRP VLVIIFKNIKILQNTENSTKIVYVPPPNNQ ILTFCFHFCFK
8852	22753	A	8917	3	106	GLELPTEGDLDPASASQNAGITGISHHAR PIMTYS
8853	22754	A	8918	320	171	AASSTDGSYKCLCLPGYVPSDKPNYCTP LNTALNLEKCPFGPLPHLSGSS
8854	22755	A	8919	1	201	VKPSDRYHLMPIFTAAYPHQNSTYNPVV STRMVAEEFKQGKRLSLCSDLYRKDLR TIVDPVVSCAT
8855	22756	A	8920	3	182	LLRPLEKRGIRVGVSRSRYHLSRLPFA RKGNSPTPCASRVRCPSLHGLHPLSD KPQ
8856	22757	A	8921	142	1	SCHPGWSAVRPQLLRLRYENCLSLGG SGCGELGSCHCTPAWTTEG
8857	22758	A	8922	1	117	LFFNYAWGWSTLLSRLSLSNSWVHVILT PWPPKELGLQA
8858	22759	A	8923	357	121	LGAFSDGLAHLDNLKGTFATLSELHCDK LHVDLENFRLLGNVLVCVLAHHFGKEFT PPVQAAAYQKVVAGVANALAHKYH
8859	22760	A	8924	343	133	LFFFNFNFLETRLREWLIFVFSVETGFPI KRAGLKQASSDPPARGSQSAEISGMSH YAWPCKSNRAFKCS
8860	22761	A	8925	321	44	PDSGGSPASASQVAGTTGACHDAWLMFI FNMDININIPPSAKRDKLMSMDKINEIIIF SLLINRISSFQIMYFLCSSRIESRKRWL KQTGRKKE
8861	22762	A	8926	335	106	HVFVLIETGFHRVGHAGLELLTSTDPPA LAYKSSSGITGVSYRSFTKLHLCACVCLC IYTYLGLVLSFTP GSWEKKT
8862	22763	A	8927	2	160	LSRVPPRSANLTSISVFAEKCHFTMLPR PISNSWAQGLLPSQAPKVLGLQA
8863	22764	A	8928	3	140	RVITEEEKNFKAFASLRMARANARLFGI RAKRAKEAAEQDVEKKK
8864	22765	A	8929	126	59	NSGGGGCNELRSCHCTPAWATE
8865	22766	A	8930	3	104	KNMACYCRIPACIAGERRYGTCIYQGRL WAFC
8866	22767	A	8931	311	112	MENYLSKMQQELEKNITRELKEAAAEL SGSIASPLGSTDESNLNQDLVWKASREY VQVLKKNYMI
8867	22768	A	8932	345	134	GGGSSPWFPFWPRRADSLRVGVLNPP GPGGGGAPFFLKNPLIGWGGGARLWFQLI LLRVRPENSFDPGR
8868	22769	A	8933	262	39	RPRPRPHPGNFFFFFFNSGSHYVAQAGLE LDSSDPTLPSQSAGTTGMSYQAWPLDHT FENRDCVLLHCSSPVSNT
8869	22770	A	8934	84	22	TPAWVWWLTPVIPALWEAKAG
8870	22771	A	8935	277	111	ERIINHAAGSHGVSGIFMKYDLSSLMVT VIEEHMPFWQFVFVRLCGIVGGIFSSTG

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8871	22772	A	8936	2	106	DSAIPIRRLCECLKEDVQRQQEREKELOHRYAEFVF
8872	22773	A	8937	1	193	LMWDfspSGLDGAFQRGYYWYNNKYINVKKGSISGFTMVLAGYMLFIYCLSYKELKHERLCKYH
8873	22774	A	8938	240	69	DSGNQLKRSFSGRARWLTPVIPALWEAEVGESLEVRNIIYILQNMSNIGNIHLIIK
8874	22775	A	8939	329	177	RWNLAMLPLRLVILNSWAQACPSWPLKMLGLEAEPSCPARTNFKVTSPLRH
8875	22776	A	8940	358	120	HPSNFFVFLVEMGFHHVGQPGLELFPARYVPTLAFRSGGITGISHCAWPKEWALPRKASPGLSGRGGSPHCATCSSKAW
8876	22777	A	8941	333	104	PHVYSNGHICLISILTEDWSPALSVQSVCLSIISMLSSCKEKRRPPDNSFYVRTCNKNPKTKWWYHGKQFEFVITF
8877	22778	A	8942	1	241	APLVAFTQVNLEDKGGLSKLVEAIRINFNDRYDEICHHWGGNVLGPKSGTRIAKLIKAKAKELATNWIKCTLSSFLYIKR
8878	22779	A	8943	1	240	APLVAFTQVNLEDKGGLSKLVEAIRINYNDRYDEICHHWGGNVLGPKSVTRIAKLIKAKAKELATNWIKCTLSSFLYIKR
8879	22780	A	8944	306	150	AASTLCPCRLECSGAIMAHCSLNLLGSGDPPASASQVGGARGSLEPGRWRLQ
8880	22781	A	8945	284	2	GKSSRRSPLDLCTSGFTGSTHFTLIIICWVPRYATCPPIGLNFVFIKTTWSHYIVQA DLKLMVSSNPPVSASQSAGNTGMSHHTWLENRLTTKK
8881	22782	A	8946	1	226	WSFALFAQAGLEFLTSGDPASASLSAGITGMSHHAQPAVSLNSIFSASTFCATSSYCAKMEKELKFMLIVDAA
8882	22783	A	8947	363	96	NTAPGYMPLLSIPFLVLSKAVFLFLLGMDTAALLIIAQRWEQPKCASTDEWINKMWHMHTMEHYSTCCGVHAAVNISIQISEWCWEW
8883	22784	A	8948	1	208	GRVGQGPLRLLTSGDLPASASQSAGVAGVSHRAQPTPALNCVLTCAVWLQHYIKHNH GKRSEYFTIFNDM
8884	22785	A	8949	69	298	SRGHQRVADAALLSFDPVICLGLMLWGSSSIIVCILHRHKRRVQHIHRTSVSPTSSPESGATKTILLEQERTRSPRS
8885	22786	A	8951	2	201	LYDILLNMRSTISLPLPSLVCIHSHTHEHTYTHIHTHAHTYTHTHSHWVLSQLQKKMVKHPRPLSVWI
8886	22787	A	8952	1	285	GASPPASLPPCSSLISDCCASNQRDSVGVPSEPGAGYGNLVVRRVLSPSEKRSIRVGVTRFSRCRSPSPLSLTRKGNSLTPCASRVRCQCLTLLWLVH
8887	22788	A	8953	341	256	LGLGGGGCSEPRWHHRTPAWTERDFISL
8888	22789	A	8954	227	43	ILFIGKHTHTHTHTHTHTHTTRAKCLFP PARFPPTSPNSTTNCTFPTEPAANPRGLVRAGLG
8889	22790	A	8955	310	79	RPRRPGLMERVNVFIFSIRESFYKIRITNQAQCCMPIVPTQETEAGRSLEPKSLRLAWAIQONSISKNNNNNNF
8890	22791	A	8956	374	198	FFFPLPNRHGLAMLPRMVLHNVQAVLPQPPKVLGLOG
8891	22792	A	8957	138	10	RPRPRPLCQAQWLMPITPALWESVAGGL

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						LEARSLRPAWFFFNT
8892	22793	A	8958	354	216	AGPRVFPGGEGGFRPPPGGSPPQGPK GGESGGKPPPPAHWVFF
8893	22794	A	8959	364	223	LQAARSKKKKKKKKKKKKKKKKRGGGK
8894	22795	A	8960	259	11	FEALKDPSNNLQLSLSFIVTVLTVAHVY EKLSTLTSLAARRGLAMLPLASNSRTQ TILLPWPSKVRLQARATEPGLGLLL
8895	22796	A	8961	334	213	AASTKNFERMEWLTTLPMLVLNSWPQV TILLPWPPESMRL
8896	22797	A	8962	260	3	KGGFFPIPFIGIKPGFFFSPALIFPKVF IFSQNFFVFVLKKIFFFFFFVETVSSHVVK AGLELLASSNPAPAFTSQSAGMTGMSHHA W
8897	22798	A	8963	425	248	ADEWIHKMRHIHMIEYYLAIKRNEMLIH ATAGMHLENILSEKDHYMDSIYMKCLAW ANL
8898	22799	A	8964	1	118	GKLMEHLGECSGGKATGDETGAVERA DGYEPPVQESV
8899	22800	A	8965	2	130	GRVGPRMALNSWAQVIHLPWPPKVLGLQ VAMKRKIMILSTS
8900	22801	A	8966	119	364	LGWYLIKEKIQICCSPLCLGADPFOQMISP LRDGLSTVLPKLVNLNSWPQVFLPPQTRK VLGLQAEVTAPGHIIFMIIMINTFK
8901	22802	A	8967	238	333	TRCLRLLPRLVLNSWTQALLPSPPKVL GLQV
8902	22803	A	8968	297	169	NPPPPPFIYKFFFIFNIFFFFFFFFFFF FFFFFFFMSKILIF
8903	22804	A	8969	2	212	RVRPRDRPLVRRVGRNKDGAETTPSPG LLPAHLTFPLDYHLNQPFIIGLRTDTG ALLFIGKNMDPRGP
8904	22805	A	8970	242	357	TLDIIKSFKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKKKKKKKKII
8905	22806	A	8971	191	265	IILMPXKKKKKKKKKKKKKKKKKKKKKKR
8906	22807	A	8972	398	97	MFLYNRILWFSPHPPLRFFSPRATIF LGGGAPHFPPPKGGFFSKKPPGVFLSPP QKEKIFSFPPLFLAPPKDFFKSPPPFF FFFFFFFVSTGSSVS
8907	22808	A	8973	370	265	YNSSLPPSSWDYRHVPVCPDNFCIFSRGW SQTPDRL
8908	22809	A	8974	3	119	GLKLLTSSDPPASASKTAGITGVSHHTQ TIFVFSSHKs
8909	22810	A	8975	1	110	VAQAGFKLVSSANLPTLASQSARVTGVS HRARSMKQ
8910	22811	A	8976	3	152	WNQPKYPSTGENMEKMWYIYTAKLQPM HGPVVAQDGFEQSPTQIHKLS
8911	22812	A	8977	375	193	FQDLPLGSTSNSISFFKRWSPPAMVPRLIS NSWPQEILLPQTPKVLGITGMHSCTWPG GHISI
8912	22813	A	8978	2	395	RAALPTQASAMAGAPPASLPPCSLSSD CCASNERERESVGVGPSEPGAGYNYLLVCYL LRLLEKRSIRVGVTFRFSRCHLSPSLTR KGNSLTPCASRVRQCLALLWLTL SALYPL LSCTHCQTLPSEMNLVPOI
8913	22814	A	8979	120	19	ARVQWHDHGSTATLNSWPQVILLPWPP VLGLQ
8914	22815	A	8980	204	48	LNRDKGLTMLARFVRNSWPQAIPLPWPP KVLGLQALATAPCQMSFLRAPLS







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						CMSSLISGS
8971	22872	A	9037	461	167	NKNYPPLGGPPFGSPSPENLNGGFFLTP GGGGPINPNSSPPPPGGRRPPFLKKKK KKKKEKETNTYILODTCDRCSAVLPIMO VKIVMICLIMHRLF
8972	22873	A	9038	466	292	NGCLLEPASWNSLANIFIFCREEGLTML PRPQVILPPLPKVLRLLPPPPLSS
8973	22874	A	9039	34	124	GIRNIKFSSLSTFIAKKKYCCSSHAAEH VK
8974	22875	A	9040	54	239	RRRRKLRWRWGLAMLPRLVSNSWHQAILW PPKVLRLQACATTTPGLTRRWLHGQIWSP GAGSV
8975	22876	A	9041	469	223	PWARVCVCVCVSVCVCACRVRCARASES QTCAAVPVLGPAGAGRPAKGCCAVCEDE VGSCPAPHARPLPRAAVDKAAGRRGLCF
8976	22877	A	9042	491	380	SPGVVAHSYNPSTLDGRGSHTRVRKF TCLATEGAV
8977	22878	A	9043	144	360	IHSHWGYWLVDVSLIAAHLAINPDCEFMVV YIFSQCTDKLTEKEFIEGTLANKEILRL IQFEPQKVKEKMKNA
8978	22879	A	9044	23	263	RWNSDGKGSRLPAWATWPDPVSIKNTQN THTTHPTHPSPHQGQPFLSPTFPFW PVSSPSPFPPFSHTCLSCLLPPGA
8979	22880	A	9045	461	287	PPSLANIYLIFIYLFIGRDGVSLFPRLV NCWAQAIIILPWLPKVVLGLQGEPPNLALK SL
8980	22881	A	9046	485	6	NNKNSWAWWRVPVLPATREAGAGESLES GRRRLR
8981	22882	A	9047	475	307	LFLRDGSLLTVLPRLVNSNPQAIILLPWL LKGLGLQARATLHMACSSCINSTQNILQ
8982	22883	A	9048	483	338	LREGERQREQERERERERERERERDRERAH TTAFTQLLFQYVATILLPCY
8983	22884	A	9049	680	303	NDLFGSLYVKQFAASGTGRVTLPEPSE EQVVCRLRCFDQLFGDDHNKNGFKMFDS NYHGQDLLFKDATVRAVPVGKTTYRGW LGLDYVAALEGMSQQCSGAGRTGPPCR LPWCYSDPFTPEP
8984	22885	A	9050	26	165	AFGYHRVQAGLELLTSGDPFASASQSA GITGVSHARSQYFFVYV
8985	22886	A	9051	461	83	HKINLPSHKKKKKKKKKKKKKKKKKKKKK K
8986	22887	A	9052	475	209	MAAPPKKKKKKKKKKKKKKKKKKKKKK KI
8987	22888	A	9053	531	404	SVTQAAMQWQKHNSLQGSTLEFKQSSLL SLPTIWDYKHAIDL
8988	22889	A	9054	66	416	KKKTNKIKMGGGPLPKFISPPFLKKTLS WKKGAPKTPPLEMAPFFFPQGGKKNSP KGGKIFFFFPPKKTFIGPPGGEHTPPL GGGPQIFSLPPPCKGPVQPKNPPPLRGGL FTTI
8989	22890	A	9055	1	104	IILAVNGETLEGVTHEQAVAILKHQRGTV TLTVLS
8990	22891	A	9056	3	106	LKRWGIAMLTGLVLSWAQVILPSWPPE VILGLQV
8991	22892	A	9057	1	299	PTRPINITIILAFITISLLGILVYRSHLISS LLCLEGIIILSLFIIATRIYPIAPPPLP EPEKKKKKKKKKKKKKKKKKKKKHHKKNTKK RKIKAKRKKNLGGGGI

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8992	22893	A	9058	482	146	LTSKKKKKKKKKKKKKKKKKKKKKKKKKK
8993	22894	A	9059	2	290	YFLFAYTILRSVPNKLGGVLALLSILK KKRGGPFKRTLGGPKFNRRGOGNIFFL MGGGLKPNLGILGRNLSLGGGKNWPNLP PKIKGFRENKNF
8994	22895	A	9060	413	48	PQKGFFQKNPKGFLKPPPDKKKKKFP PGKIWPPQKIFKKPPPPFFFFFFFFFFF PKFFFFFFFSSFSIRNPPSSYTKW LRSLDVCHLLPITPQVPGPTPVLLFST LPDCNHSSL
8995	22896	A	9061	2	274	FTISLLGILVYRSHLISSLLCLEGITILS LFIATLTILNTNSLLANIVPIALVFA ACEAAVGLALLVKKKKKKGRPFKRILGG PQINPG
8996	22897	A	9062	42	255	QEFRTRRERERERERERERERERERESSGVVR AKFRSNFSAGAIHAHTIRVMLPPSGIYSN EKSINKCGFALLFF
8997	22898	A	9063	20	413	YALRNSARAGDPHGQLGRRDGAVGGRGW LMPREALHPWWANVQAWAGSPGLFLGAP WPQGGVWLWPLCVSMSASSSSINGLPPQ KKKKKKKKKKKKKKKKFWGGGPQSPF WGGLKKFGGRFLKRGGEN
8998	22899	A	9064	6	306	ECEHSTTYSHFAGGGGPVMGGDADARS KALLGVCVGSGTEAYVLVLDPHYWGTPK SPSELQAAGWVQEVSAAFDPNSFYNL CLTSLSSQQQORTLD
8999	22900	A	9065	463	126	AHYQLVYTCKVCGTRSSKRISKLAYHQG VVIVTCPGCQNHHIIADNLGWFSDLNGK RNIEEILTARGEQVHRVAGEGALELVLE AAGAPTSTAAPEAGEDEGPSPGKTEPS
9000	22901	A	9066	23	244	SCHAGIRHEERERERERERERERERE REREREIYFLAFSQKGRVHGFKTPRG GQKRELLSNRVNTLCTE
9001	22902	A	9068	396	143	KDIQNFQAWWLTPVIPALWEAEAGGSR GOEIETILVNVMVKPHLSVLAKNSSHC PMCWLAELQWYDLCSFQKIFFGIIILIPG
9002	22903	A	9069	828	99	VDREPVDREPVCVHPDLEERLQAWPAEL PDEFFELTVDDVRRRLAQLKSERKRLEE APLVTKAFAEQIKEKLERYPKVALRVL FPDRYVLQGFFRPSETVGDLRDFVRSHL GNPELFSYLFITPPKTVLDDHTQTLFQG EPLPGRSGCNCNLGAEEPAGVYLEPGLLEH AISPSAADVLVARYMSRAAGSPSPLPAP DPAPKSEPAEEGAVALVPPPEPIPCTAQPV KRSLGKVPWKWLKPASKR
9003	22904	A	9070	20	427	DGTTRERERERERERERERERERERERLYLTEDT LHSLSLEGARSGASVCVQSVPYGASAP HSIINGHKRVLVLVCVETEHTFPLAEKDR AFLGDTSVFVGAAAPVGGANTGASAGGAP PSRGEPEKEESGESHEDMGFGLFV
9004	22905	A	9071	297	126	CSIYDKRIPTFGLGEGVSRQRLLLP CLPPALTETPTSSDWQSTDATPTLTNSS
9005	22906	A	9072	117	286	VVLRGSEKMFQVQEINEQYLQCILIKGI FLVKKKKKKKKKKKKKKKKPRPEYIK
9006	22907	A	9073	3	302	PPMETLROWITIVHSQEEEHHFEVIKD EVKVVARKHGPQGTPVAIATQLPPRTSA AFPAQQQPLQPLAPTTVLSVSADWNALL QRPNKYIWGLQYLEM

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9007	22908	A	9074	437	79	NQKREEEEERRKKRRRRRKRRRK KILRKKKKKRRAKSREKKKILRLHLPEK NKRSKKHYELINALSRLQDTRLIYQKMH FYILAKNNWIKLKIQYHLQALENKVPR HKWETYA
9008	22909	A	9075	51	185	CRADFMFFHDKIIIVYLCSLVYLLTFPPL LSYDPAKSPSARNTQE
9009	22910	A	9076	452	310	QFSRCHLSSLSLDRKGNSLTPTCTSWVR CLALLRLTGLAHLLSDNPQ
9010	22911	A	9077	438	326	LLHCWWDCDKLVQPLWKS VWRFLRDLELE IPFDPTLHF
9011	22912	A	9078	37	169	GIPGFRHAGQRRLQLLITGDLPTSASHS AGITGTSDRARPSTF
9012	22913	A	9079	1	408	RKGRLSKEEIERMVQEAEKYKAEDEVQR ERVSAKNALESYAFNMKSAVEDEGLKGK ISEADKKKVLDKCQEVISWLDANTLAEK DEFEHKRKELEQVCNPIISGLYQGAGGP GGGGFGAQGPKGGS SGSGPTIEEV
9013	22914	A	9080	31	168	VRRNPRLEHTVTITAYCSLELLGSSNLP ASASQVARTTGLQLLNQ
9014	22915	A	9081	460	319	YFFVEMGSHYIAWAVLELLGSSNPPASA SQSAEFTDAHKPTDCRPLR
9015	22916	A	9082	465	326	PCVAEFTHTHTHTHTHTFKCVGSHL HTNND
9016	22917	A	9083	33	269	PGNSRPPISSVRGIHPPCLANFCFLNVFV EMGSHYVVLAGLILGSSDL SALAVQS VTGMSHCAWPEIFFLLENWIIL
9017	22918	A	9084	47	300	DLITSLFLLKQSSLATMNIQTPFKNIYF DLIITKTLFLRFIFCFIYFYFLFFSYGG FFSFFFFFLK GSSFLPPRLNGAKIWVN
9018	22919	A	9085	437	220	NIAIKSLSLSLSL SLSLCVCMCVCVSACVC MCLSLSLFSPSSLSHSLFP FSTPNMDIS HLP LSTQENMLLQ
9019	22920	A	9086	227	23	DCPKANILGLTPRLVSNSWPQVILTPWP PKGQSLLCROGE GDRITWHPWWLHP PQARFPPRTHFH
9020	22921	A	9087	206	326	PHWAQWP TPV PALWEAEAGKS SQGQEFE TSLANTVKPRLY
9021	22922	A	9088	364	123	SRV LPLKAPGED TSLPLPASGGSRC SL AWGSI P S A I P T W P S V L C P C E I F P L L F L Y G D C N L G P T L I P D D L I M R S L P
9022	22923	A	9089	373	205	MPP RLANFCYFSRD WVSPYWS GWS QTPC WDY R E P P C V R T S Y V Q Y C A C Y A G L
9023	22924	A	9090	283	2	REF SFSAVV LAF KIF W K L F S P P F W R V R P ED W F I P G G C G P N F P P C P G V G K G E P R F K K K K K N F I S S Q A Q W L M P V I P A F W E A K A G G S L E P
9024	22925	A	9091	16	261	CPE D L L V G Q N V K V E D S D M G D P D R R P M C M F A C Y L L V Y R R C L A M L P R L Y L N S W A Q V I L L P Q P A S L E L L Q A H A T T H P A L C L S F
9025	22926	A	9092	17	109	RQGL A M L P R L I S N S W T Q A N L L P W P P K E L G L
9026	22927	A	9093	282	114	KKGGK G A L L V F L K T G R K P F F F F L R Q G L A M L L R L V L N S W A Q I L L P W P P K V L G Q A L P C L P E I W E A F T G G S Q G
9027	22928	A	9094	205	337	NANLHG R M Q R L I P C L P E I W E A F T G G S Q G Q E I E T I L A N M V K P C L Y
9028	22929	A	9095	62	287	EHS C A K L F C F A F E S G P Y S V A Q A G V W H D H S L L Q S Q T P G L I Q S S C L S F P A S A G F Y K E

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						SPSFYKDKSCHHLGKHSGA
9029	22930	A	9096	170	9	AASTGYCIGRFTKLKIQSQQQVRWLSP VVPKREAEVGGLEARSSRP <span style="float:right">IWATW</span>
9030	22931	A	9097	2	104	RRPGGRAEPRARVRGDRDPVLLRHYPH IFEECG
9031	22932	A	9098	350	142	LCLSCPKGGGYRAMAPWRGNFCSFGKNG GFPMGLGRVVLKPQMGPLPQPPKRVGFQ GLS PPPGPPPFLV
9032	22933	A	9099	494	342	YFYFYFVEMVSHVTQAGLELLASSNPP ALISQHAVITSGSHHTQPKLYF
9033	22934	A	9100	30	232	GGIMLCHGRCACFPFAFCHDCKFPKVFO PCFLYSLQNCSFLYKIPSRLSCRQLAE LLSIIYLENPL
9034	22935	A	9101	26	171	RNSRRRLRKKNRSLGGGGCSEPRSCQCT PAWQATARLSLKNNKKQQOKKP
9035	22936	A	9102	486	239	HHTCPHQVCVCVCVYRVCVCVCVY IYMYMCIIYIYIYIYICRERERERE REMWFFHHVAQAGLELLGSRDLPPAPAS
9036	22937	A	9103	487	344	TGFFFHVGQAGIELLTSSDL PASASQSAR ITGVSHHAQPLFMIFCAKC
9037	22938	A	9104	470	221	TPGLKRYTCLSLPKCWDYRCEPHARQGA FLCAFSPLSSQQPWNKRPFHFSYETNK VERGKRLPLRSPPSTEQGFDRCVLFQT
9038	22939	A	9105	468	259	YVFPCRGGTLISSRVLNNSCPQQSPCL SLPKCWDRYHEPPCPSCCSNLLLMFHFT NVFLIDSECSHFTP
9039	22940	A	9106	466	329	RVAGTTGTTHHAWLINIPSVETGFHHVG PQVIQPPRPPKALGLQA
9040	22941	A	9107	409	306	AGFELLASSDL PASASQS AITGVSHHA RPSLIF
9041	22942	A	9108	417	269	MVVAQADMESSKEPGLFNVIINDSLVQ AYPELKEALYEEIKKAQRGA
9042	22943	A	9109	533	399	RGSLRHETRLNAEARRCSELNSRQCTPA WATERDAVSKKTQKA
9043	22944	A	9110	16	239	LVHFEVWRNSHEVS LTADSRKSHLIFPQ PNYADTLINQESYEKSEPLLITQDLLET KGEPRQLQVSFFPKREE
9044	22945	A	9111	68	219	EPPHLANFLQRLVFTMLLTLI NSWPGV ILPPGPPTVGLQDKLPVLPS
9045	22946	A	9112	192	57	DRVPLCPPDWSAVARS WLTAASVSQVK ILSPQPTECAPPGNST
9046	22947	A	9113	21	201	TIVSVVEMNLGGGTGCEPRWCHCTPDW GTERDSVSGEKEDKDVARRHVG SFYN GPQ
9047	22948	A	9114	2	144	TFTIDRCAKDLFVAKQVGTKLSVNEPLS FSVESILKRPSA ITRVSQ
9048	22949	A	9115	156	316	MILNKKKKKKKKKKKKKKKKKKKKKKKKKK KGGPFPKKTLGGAKITPGWKNYFFFFMG GV
9049	22950	A	9116	1	84	TKPTPFLPTLITLTTLLPISPFILIIL
9050	22951	A	9117	1	176	HLNLGGGV CSEPRSC HCTPVWATEI LSQ KKKKNGFKFWEP RPQKEGGGRKKPPG VP
9051	22952	A	9118	1	184	AAAGYPGQONFHSVREM FESQRIGLN SPVNGN S SCQMAFPSSQS LYRTSGAFVY DCSKF
9052	22953	A	9119	69	374	IIFSKKKKKKKKKKKKKKGGPPKKP

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						WGGPKIFVLLRRLSFFFIRGEKKNTFGDF
						KKKTFWGGEKLGKPPPKKKTPWGKKKI
9053	22954	A	9120	405	93	FKGERGKKPFLGGKKK
9054	22955	A	9121	2	380	EFSPLLLTTINQKRGFFFFPSPPKIFFFPK RIYFLGGGGPHFPPPQKRGFQPKNQKGF FFSPPKEKKYNLP PPPKGKFCPPQGFEEPPP PPLFFFSSFPFFFFFRCQIK
9055	22956	A	9122	2	534	WDYRCPPPHPTNFCIFSGDGVS PHWPGW SWPQVICLQPQPKVLLTTPWVRDRTRDLE GGDLWYGA CLGACLH LGPQAA SF GHGIL GPASLLCCIPKHVHMDT LSPGVKLQSCD TGVALRVGEKREGS
9056	22957	A	9123	389	46	D MIREQKTIYH KYLAQRREEEKAQEKEFD RILEEDKAKKLA EKDKE LRLEKEAR RQL VDEV MCTRKLQVQEKLQREAKEQEERAM EQK KHINESL KELNCEEKENFARRQR LAQ EYRKQLQM QIA YQQQS QFAEKEE KRREF EAGVAANKMCLDKVQEV LSTH QVLAQNI HPMPQGMPO
9057	22958	A	9124	422	59	GPNFLPPPPIGF FSPFSPLKFFFSPKTL IFLGGFFFPIF PPPKKS FFPKNSP GV FFC PPFKKKNFLFPSP LNFAPPRV FFKEPPP FFFFFFF FFFFNFYR LYFIWVNGLAKV VV
9058	22959	A	9125	333	168	AQQKKKKKKKKKKKKKKKKKKKKKKKKKKKK K
9059	22960	A	9126	175	89	KGPPCIVVC MVCFHKLEAGSHSVAQAGA QC DCGNL LQTL TLGLKRSPHFSLPSR
9060	22961	A	9127	368	250	KPPP HFFF FFFF FFFF FFFF FFFF FFFF CFNYLSR DRGLPLL PGLVLK SWPQ AILL PQPPK MVGVQG
9061	22962	A	9128	392	157	FFSPKR LNFGGGGGPKM PPPKKV SPQK PHG CFFSPPQ KKKKF PPPPV KMGP KKS FLK SPPP FFFF LISSIRGLFL
9062	22963	A	9129	396	13	F PPPPPPPI FFFSPRRFFF RGGGSVALSP PPKVF FLLN PPPVFFF SPPPKEK TSFFF PPFFC PPPQ QI FLI APPYY FFFF FFFF FLF VFFF FFFF FLLP LFL GLKT SFLLL LFLF IYLET GCS CVA WARVQ
9063	22964	A	9130	55	180	L LYNKLIFT LKKKKKKKKKKKKKKKKKK KKKKKE KYE KT KAY
9064	22965	A	9131	2	95	S FVHMEHEKAV LLLKSF QNTV DLGI QRE LTV
9065	22966	A	9132	172	404	KKKKKKKKKKKKKKKKKKKKKKKKKK FKNSWGGPKRGGGK IFFS LLLGGKKKT LGVF LEKPLFLG GRKMA PPPP
9066	22967	A	9133	1	125	OPVSY PFTIIGO VAY ELYFTT ILI LIP MS LIEN KILK WAY
9067	22968	A	9134	1	120	QPVSY PFTIIGO VAS VLYFTT ILI LIP IS LIEN KILK WA
9068	22969	A	9135	7	269	IATGQ PRLQ KLTLD PTL LKRF LLTKK KKKKKKKKKKKKKKKKKKKKKKWWGGGGH K KKPPGGPKTYPVKKK IFFF FGK KIKK PP WGI
9069	22970	A	9136	1	64	LV SIS NTYGLD YVHN LNL LQC
9070	22971	A	9137	400	259	SOPLRRLR HKN I LNP GGGH YSEL GSCHC TPAWD TEQDSI HS WL LSSV
9071	22972	A	9138	3	310	ECFPNSPNMGHCNLLVQ STSPSIST TMP

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						CPKYVALEKVFLLNLWFFYLKYRDNRP GSVAHTCNPSTLGGRRGGWITGAQEFETS LGNIARPSLIKRKKYKLF
9072	22973	A	9139	34	142	NCKKLNTHTHTLTHSHTHMLTHSDTFTH THTHTKYK
9073	22974	A	9140	146	2	PPPPPPEGVSLCGPGWSAVARFRLTASS ASRVHAILPPQQPQQLPTRP
9074	22975	A	9141	3	102	PPPASASQAGVTGMSHHAQPIEPLRCSS HRTT
9075	22976	A	9142	245	51	NREGDLLCCPRWSQTFGLKQSCLGFPKC WEYRRGPPHLAYIMS MRKNII.IQMIFYY NNPCLLYS
9076	22977	A	9143	2	108	GAKCVSDRIKHAFLIKEQKIIIVKVLKAQ AGSQKAK
9077	22978	A	9144	3	200	MGFLHVQAGLKLPTSGDLPASASQSA GTGVSHRAWPVSGFFCSEAKECFWEEQL INLDKNSQK
9078	22979	A	9145	405	227	WFFLGFPKGKLGPPKMFFRAPRVYSPF FPPFFFWPPPPIIFPPGFKFVFLAG PIW
9079	22980	A	9146	387	220	PLFFVGCFYYYYYYYYYYYYYYYYYYYY FFFFFFFFLGGCERNFIIRKNINN
9080	22981	A	9147	539	220	VINFKHILIKTVIQSLFFFERGSCLPPR LECSNMIMAHCSLNLLGSSHPPASASQV AGTGTGAYQHTQLIFIFFAETGSCYVAQA GLQLLGSSNPPPWPEVGLQV
9081	22982	A	9148	3	141	GGGGCCEPRWSHYTPAWATSAKLCLKKK KKRFLEKSCLTPLLKKA
9082	22983	A	9149	413	240	FIFCRDGGLTMLPGLTSNTWSQVILPPQ PPKVGLQAYHADELPHLATWGVLYGLTV
9083	22984	A	9150	395	193	LLFGPCLLNLITQFVSCHLLDIKLQMTL SEGYFPLNMQESPFYRAPLDDPSVRHAR GEILPISLGP
9084	22985	A	9151	1	77	LVAIAVLGGTGWGFKNIRRGRSGGA
9085	22986	A	9152	365	181	IVDRPDPCRDADAQREVFTLSARYPKIW VPPGDPAREFPFIQSAPVMLAAPDELV SAQLA
9086	22987	A	9153	373	251	FKKIFFCRDRALNMSPRLVSN SRTQAIL PPQPLKVLRLQAA
9087	22988	A	9154	204	95	DYHWSQLPGMVAHACNPSTLRGRGRWITR SGDRDHPC
9088	22989	A	9155	44	280	AELFGTLMREDGLSLGGGGCKEPKSCHC NPAWATEPDCLRKKRKEPYLLVVTPPD SSYSPPFFFLLPAPDNNDYFLS
9089	22990	A	9156	2	117	ERLRHENCLNLKGRGCSEPGWCHCTPAW ETKQDSISKK
9090	22991	A	9157	3	207	HASAHASADAWDYRRVPPCPANFCILYV SHVGKAGLNLLTSSDLPTSASQSAGITGVSHARTPTYV
9091	22992	A	9158	117	267	NRVLLCCPDWPQTGPLKGSSLSLLSSWD YRHIPPLAARRSSYLGPGFYH
9092	22993	A	9159	415	167	LFFFPIKNXFFFSPPLFFFFFFFPPPPX XXFFFFFFPFFFFFFF FFFFFFFF FFFFFFFF FLELKQNF
9093	22994	A	9160	217	41	SSQIHRDRNRMRMVRQGAVAHA CNPSTFGG KGEQITRAQEFTSLANMVKPRLYYKPC

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						LY
9094	22995	A	9161	341	164	FFFFFFF <del>FFFFFFF</del> VSVELKKWQNYSFDVRIILRVEP
9095	22996	A	9162	190	402	IHTGKHPKCYRNSYSVLFLASKKKKKKKKKKKKKGGGFKKKNLNRGGEIIFFFWGPKKIFGGGLKKG
9096	22997	A	9163	108	209	LSVKRC <del>AKNP</del> KKGKVAPGIKEIRTRSHQDSEDI
9097	22998	A	9164	2	145	KHCGRPRPQGPLPRKTRDLC <del>S</del> VYLLTFPPLS <del>Y</del> DAKPSARNTOE
9098	22999	A	9165	170	402	ISRC <del>H</del> FPSLILSYVKITKT <del>I</del> KAPKKSKKKKKKKKKKKKKKKKKWGGPFKKKNFLGGGGEI <del>FFF</del> GAPKKKRGG
9099	23000	A	9166	399	113	WRLRWEDCLS <del>GG</del> RGCSEPGSCYCTPMWVTEQDQS <del>GY</del> E <del>GF</del> QRPSSLSKARI <del>PS</del> VAAERSMCQ <del>PAC</del> VCNLS <del>VEH</del> SL <del>Y</del> SC <del>LIA</del> QZGKALYKLLNK
9100	23001	A	9167	3	138	SWITGVCHYAWLIFAF <del>FL</del> VETGFHRVGQA <del>DLE</del> LV <del>TSG</del> DATT <del>LR</del> SH
9101	23002	A	9168	134	301	EKL <del>T</del> QSHSVTQAGVQR <del>LN</del> VHSLR <del>PP</del> PRFKRF <del>S</del> CLSPSSWDYRNLET <del>V</del> LQ <del>E</del> BETH
9102	23003	A	9169	201	1	GAT <del>IL</del> R <del>F</del> KTKKNVFFKKKKKKKKRKKKGKGWSG <del>T</del> ESR <del>W</del> NLS <del>G</del> E <del>G</del> SSGLRRRK <del>L</del> QAPGPQEFEKLA
9103	23004	A	9170	2	191	FVPQPLPLGF <del>K</del> RFS <del>C</del> LSLLSGWDYR <del>C</del> TPPHLANFCG <del>FFF</del> LK <del>FFFF</del> KKKNFFSPRGRGGALI
9104	23005	A	9171	2	191	GGTESCFVAQAAVQGCDLGSLSQSPPTGFSETASQTVDPDKVKDPGKLRTMFVAELPKTIVTDS
9105	23006	A	9172	3	143	SWFLYVGQAGLELLTSGDPPALASHSAGITGVSHRARLQTGIFRAV
9106	23007	A	9173	361	174	VLGJILSM <del>S</del> ETE <del>I</del> FNTKCLDQSGTVAHTYNPSTLGQQGRVIRAQE <del>F</del> ET <del>S</del> LGNT <del>I</del> GRPHLFKI
9107	23008	A	9174	493	351	L <del>V</del> ETGFN <del>H</del> VGQAGLELLTSSDPPASASQ <del>S</del> AGITGVSHLALVL <del>I</del> SRKSC
9108	23009	A	9175	1	115	FRKIWIYIYTMEYCIAVKKEMLSFTITWMNLEDFMLVR
9109	23010	A	9176	286	96	PLFFNRWGLAICLGWSAVAIHRRDHSA <del>L</del> QSQT <del>G</del> PLKRSSC <del>L</del> SLLSSWDYRRVPC <del>P</del> C <del>L</del> ANESHY
9110	23011	A	9177	399	237	RNTKWLFFLRRS <del>L</del> TLST <del>G</del> LECSGAISAH <del>C</del> NLRLPGSSDSL <del>A</del> NGIFKD <del>L</del> ALLDM
9111	23012	A	9178	427	101	GRTG <del>R</del> QGRG <del>A</del> PHISHDGR <del>P</del> GRDAPRF <del>P</del> DM <del>A</del> AGKRRSS <del>L</del> PRWDG <del>G</del> RAET <del>L</del> LT <del>F</del> QTGQ <del>P</del> GRG <del>A</del> PHIPD <del>D</del> GR <del>P</del> GGD <del>A</del> PHFP <del>D</del> GV <del>V</del> A <del>G</del> QLQS <del>Q</del> HFG <del>R</del> PRQAAGR <del>W</del> RL
9112	23013	A	9179	193	41	IVFLFIYLFCFFVGTGPCYVAQAGLKLLVSSGPLASAPQHVG <del>I</del> TGMSHHT
9113	23014	A	9180	292	119	KITKINKQI <del>L</del> NL <del>S</del> Y <del>T</del> L <del>D</del> QMDLTDICRIF <del>H</del> PTATEYRFFSRAHG <del>T</del> FRSG <del>T</del> KNSAWH <del>I</del>
9114	23015	A	9181	3	279	ALSPPYSSECC <del>K</del> LGSFNRELSSPSPGGQKSEIKVSAGPRPLPRVQGDPS <del>P</del> PLPASG <del>G</del> PRCSWACGQITAVSASGVTHPS <del>P</del> PLLHVCCVCLI

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9115	23016	A	9182	402	238	QMWHNLWPLQLSPSLPPEVTPFLFCLNLPNN WGYRWPPPPPNTNFFFLLKGVSGLRPGSV
9116	23017	A	9183	3	207	EFHHVGQDGLELLTSGDPPASASESAGT TGVSHRAQQACRFLHFFEGTCFLSQELS YLKLGRDTIIC
9117	23018	A	9184	3	106	YPHYVKSIVASTFTIISLFPTTIFMCLDQ EVIISN
9118	23019	A	9185	110	248	GVLVGSPRLTRFHSQQLQAEGAAEIGVVT VVMGDGVLPVCVVLEVDV
9119	23020	A	9186	925	1132	KCPSAWAAHPTSEIRISQGGSQAAVVLV LFFLLKNPGDVPVIPALWEAEAGGSQGQQF ETSLANMAKPRLY
9120	23021	A	9187	399	292	ASQVAGTTGAHHHARLIFFVFLVETGFH HVSQDENF
9121	23022	A	9188	7	82	PCDP PASVSQSAGITGVSHHAWQIF
9122	23023	A	9189	1	117	LPISSLPSFLPSFLPSLLPSFLPSSFLPF FFPSSVTPYLK
9123	23024	A	9190	238	46	NKAFAKVFSPSNKKFSSFFFFLNEMK SHYVDQAGLELLSSGNPSILASQNAKIT GVSHHVRP
9124	23025	A	9191	2	282	LIFYFVDNMILVRAGLELLSSSDLPALAP KVLRF TGVS HTRPELYFQRLLAPGTL INSQAAGTNFP IGLSRIKPTQSGHGMLO EVWGTSGLR
9125	23026	A	9192	44	136	CLCVVCVCVCVCVSCCKQTLMCFCLENF DV
9126	23027	A	9193	469	347	PCPANFVFLVETGFLHVGHAGLKLLISG DLPNSDQKFYVN
9127	23028	A	9194	427	238	PPARPTAFPYIEFFVEMVFRYFGKAGLK VLISGDL CASASPVGV GITGVSHHAQPK
9128	23029	A	9195	34	178	SLHVVEFERGRAEWLTPVIPALWEAEA GGSRGQEMETILANTDFWTG
9129	23030	A	9196	22	338	CGPYSMWWNSIKRERKEGKKRKRRRK EQKERERKERKERREGGREKGKERRQREG KKRKKNKRKKVGLIGSPCIVFTWQAAYC EESGGVWPGETEHTQEGLVQ
9130	23031	A	9197	3	91	QGLSLGGGGCSEPGSCHCTPAWATERDS I
9131	23032	A	9198	1	203	RTRGNKSIDDTNSFDDFPESDILQPVPN TTEPDYKSKDWFVFLNYTYKRFEGLTQRG SIPTYMKAGKL
9132	23033	A	9199	2	144	PTRTMPCCCCCCCCCCCCCCLFMTGV FTCCHNQFENHSGCLPRQI
9133	23034	A	9200	1	99	YAAKELVHDRYRPTIEMERRGCLWWLVP RLSLE
9134	23035	A	9201	3	149	LNAVQRM EWQLKVQELDPAGHKSLCVNE VPSFYVPMVDVNDDFVLLPA
9135	23036	A	9202	284	21	KGPPLFFFFFFL RQGLVLWHRLEYSGMT TAHCNLELLVSSDPPTLSSQNAETTGVS HCAQPASLILSKPYIGFLHQIQKSCLPV TFL
9136	23037	A	9203	1	77	LRLVLNSWRQAILLLWPPKVLGLQA
9137	23038	A	9204	529	340	GVLLWRQAEAGELS LGGGGCSELKVRHC TPAWATRAETPSQKINELIKSMAVELTD DFIT
9138	23039	A	9205	413	241	HPPPELKLFS CISLISR WCHRHRPPCP YVFVLLAETGFHVGQAGHKHTYCCVSLP

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						T
9139	23040	A	9206	33	152	QLQGLESGMERCALPGYPVVFTNLCKYRSWIEETMRDK
9140	23041	A	9207	70	402	HVDWEALGNPDRPLVNLGICKLKASGIHEWVHTRTCAHTHMHHTHTCTHCRSPRVVVLNLGCTFELPGALKNARAYPHPNATKPMTSESVGIRPTRQVFKA PRAEQHCSTA
9141	23042	A	9208	46	262	GGTPPAAVRGGRSWLRDVLSRLAAAGRERRGTRRGRGRAGGAGGGRDRVGSRREPA AARTAAEGERAVRGKC
9142	23043	A	9209	15	206	PIEPLSERTNSAGAPPASLPPCSLISDCCASNORDSVGVGPSEPGDSDMQTSLWA KVPVSKD
9143	23044	A	9210	475	110	NLLAPHLLVLSLEKHSTRMGVAQFSRCHLSQLPLARKENSLTPCASGVRRCLALLRLMLGLHPLSCTHCPTGPSEMNLVSOLEM QKSPVFCVAHAGSCRLELFGLFGHLPL
9144	23045	A	9211	420	132	PPPPNYFGGAGFPFFFFFFFFFFFLRPPPPFFF LPPKKKKIFPPRGPKKIFFLKAPPPSFF FFFFFFFFFFFFFFFFFFFFFFFFFFFFFF LVRSHFILTIM
9145	23046	A	9212	353	87	FFFXKQXFFFPSLFFFSPXXFSFYPF* YLKYPLLPPSFLLFFTTPPPPXFXXXX FFFFFFFFFFFFFFFFFFFFFFFFFFFF FFFFD
9146	23047	A	9213	2	276	FIQLLKRRRLCELGYESLPHPSYSHDLLPTNYHFFKHLNDNFLQRKFFHNQQDAESAF QEFAESQSMEFYATGINTLISPWQKCVD CSVSYFD
9147	23048	A	9214	402	276	LSCLSLPSSWDYRCPPP PGYFFYFFLF LVKTGFPHLAQAG
9148	23049	A	9215	386	37	GFKKRVCSPFFFFFFF FFLQKKKVT CNPSSNKLLTLGLQGKKE IQPALMKKNSISQS
9149	23050	A	9216	1	142	KDFRVQWYNHSSLQPQPGFKQSSRLS LPKYWDYRHEYLNHCTQLAP
9150	23051	A	9217	402	181	FFFFRXFFFFXXXFXXXXFFFFXXXXXX XXXXXXXXXXFFFXXXXFFFFFFFFFFXM FQQEKLLFIFYVNIVVTF
9151	23052	A	9218	2	87	SGSLIFGLIYICMCVCVCVCVCV VYPC
9152	23053	A	9219	420	271	YYC1FRETGFHV GQAGLELLTS GEPPA SASQSAGITATAPS PFLTFL L
9153	23054	A	9220	139	413	SGYHSKTLFQKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKKRGGGAFKKK IFFRGGGGNNFFF LGPKQKNIGGGLK GGGKKPPPPQIFFFVG
9154	23055	A	9221	134	236	LHRWPAPMLPRIILNTWPQVILLPRPK VLELQA
9155	23056	A	9222	364	280	STHLSLPKYWDYRHEPPCLAKKDAQSFS
9156	23057	A	9223	1	147	TLLPMLESSGTIMAHCSLN YLGS SDP ST SASQS ARITS VSHCT QPP L P F
9157	23058	A	9224	1	208	AGAPPPASLPPCSLISDCCASNQRDSVG VGP SEPGAGYH LV V R R L S Q S E K R S I R V G V T R F S L L S H A
9158	23059	A	9225	1	145	FQHVGQAGPKL LTSGDLP P A S A S Q S A G I T V S N R V R P K T K N F Y T G N T R P N
9159	23060	A	9226	396	210	KCW D YR HE P P Y P A L T N L F I E M G S Y G V A R A G L K L L G S S N P P I S A Q S A G V P G L S H H

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						AQPIF
9160	23061	A	9227	2	154	FHHFGQAGLELLTSSDLPTSASQSAEIT GMSHHTQPRMVFFSNSSTAQC
9161	23062	A	9228	1	238	FFFLALGIFILHAIYLSIYLSIHPPSMH PSLSIYLSIYLSIYLSIYLSIYLSIYLSIYLSIYLSIYLSIYLSDFLSSAR
9162	23063	A	9229	3	65	RGDILITEPFLPKLLTKVKGS
9163	23064	A	9230	25	188	YFRTAWNQAWWYVPIVSATWEAEAGGLL EPTSSLRCAVIAPVNNSYCTSTWAVS
9164	23065	A	9231	44	232	YDLKFNNHVVFYFLFETEFHSLSKVECN GAISAHHNLCLCDGARLHRRGGKKTKK QKTLPS
9165	23066	A	9232	3	195	FFVGLGSPYVVQVTGLELLCSGNPPASAS LNARITGMASHQVQPNTGRLSFYLGSSIY GSIHAM
9166	23067	A	9233	380	244	SVPLAEMGFHHVGQASPELLPPVIHSSQ PPKAIGLQARATAAPSLH
9167	23068	A	9234	11	101	LLLINTLMFIHLSPILLSLNPDIITGF EG
9168	23069	A	9235	411	226	FFFFFATNSQGGPTSFWGPRRNNAQVAGP LRNKIFTPVGSPKKIFFPSWETPVF
9169	23070	A	9236	404	262	QGLAMLPLRVSNNSWTQAILLPWPPNQSA GGSGVSHHTQPIFISENIN
9170	23071	A	9237	369	152	HAFFVSIWRSFHVSNSYMTVTQMYHNL SIPLPDPHFFFRRGGGLAMLPLRVSNPWP QAILPPQPPPVLGLQA
9171	23072	A	9238	389	190	RPKKKKKFPPPGKGKVFFKGAPPPYFL NFIFFFFFFFFLLLLIYTHNFLIL FLNCDKLYIT
9172	23073	A	9239	330	3	GGMEPPFFPPPTGAQWGYFGSLQNSPPEF KQFLCLRLPNVLEYKSIPPCTNFCSFY KNGIFPCWPFWPKFQKKKKISWWC LAEAGGSLEPRWRWLQSAKMAPL
9173	23074	A	9240	122	248	KKKKKRGGLTPIPPLWEAKGGGSRGQK IQTILAGGGKAPLY
9174	23075	A	9241	2	286	FFVQTEFHHVAQAALQLVSSRDPPTSAS QSVGITGVSHCAQPVIIVSCDDQVTLVQR RQVTVTSILIAFCQVAYPKGAKSQWPQSF FFSSPFLFSL
9175	23076	A	9242	2	95	HMKKCSSLALIREMLIKTTMRFFFFKLI TCY
9176	23077	A	9243	377	293	PLSPRLVLSSWAQMILLPLPPKVLGSQA
9177	23078	A	9244	422	147	KKGGTQGFSPPRVFKRGPRNFFFGPPKK KKNPPPPRGKIFFFLKGPPSFFFFFFF YFFFFFFFTKYFLLGDLLLHLS KKNYSFF
9178	23079	A	9245	402	208	TIGRCHHTQLNLKFFVEMGSHYVVQAGL KLLDSTNPPSSAFQSAGISGVNPYAWTE IMFLYSIPI
9179	23080	A	9246	314	168	EPYHLHFLPPPHYYYCRWGLIVLPMLV NSWAQVILLPWWPKVQGLQV
9180	23081	A	9247	3	320	VVQAGLKLLSSCDQPASASQSAVITGVN HHARPLIFLYEMDYGSRIVLIIRKWDNN EQSNRTIFLKKDELGTGNRSACLKYTPMD INVNSGLGWRYRFGMHHQCRW
9181	23082	A	9248	22	303	KGSYFSFTYEAQTESCSIARLECRGAI SACRGAISAHCNLRLLDSSNSPASASRVAETTDHK

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						LVPERSCFTPKERNVIQKGQESEEMSNHLFTWLPLIH
9182	23083	A	9249	13	174	LGLKVRHRLWLIFVLSVETEFHHLGQAGLELLTSGNPSAGITGVSHCARPTSHS
9183	23084	A	9250	3	141	HVGQTVLRLLTSGDPPTSASESAGITGVSHRPRQIFISLFTICIR
9184	23085	A	9251	56	262	LRIPLTFGGVVKGEEEDRAVMHLRLCGDDSPMSESLHFIFKLPLRTVLDARPEKKKKKKKKKKKKKK
9185	23086	A	9252	401	275	PADLFIFIWEDGGLTMSPRLVMNSWSQATLQPWTPKVGLQLV
9186	23087	A	9253	411	258	PKVFKYRCDPPLAWFLFFFQSLLPRLGLNSWAQAFLPPWPPLVGLQAA
9187	23088	A	9255	391	167	GLKILTSGDLPASASQSAGANTGMSCARPLMSFKIRYFLFTIKMKLKLLVVPVWSAGVHPPHFSCPIVITNKPRI
9188	23089	A	9256	9	255	FFCRYGGLAVLPRLVSNSWTQAILSPWPPLKVLGLQACTHHFLMVNSNAARIKTIEMLLSEDVNFFVALLCPSFTISHFHL
9189	23090	A	9257	487	42	RYFIFLFYFIFKTTETGSYYVAQARLRLRGSSNPPALAFQOSARITAVSHRAQLTCIKYTFLFTHIP
9190	23091	A	9258	1	243	IILSSGGSFISLTAVILIIIFMIGEAFASKRKVLIVEEPSINLEWLWYGCPPPYHTFEEPQPKKSEIYSKCFSSVVFHFGGWG
9191	23092	A	9259	411	2	FFFSSPPVSLSLCVLESSPPPPFFFFSPPPKKGFSSPRVFPVVFPFFFFPFPFFFFPPLKKNFSPPPPGKIFFFFFFRPFPFFFFFFFFFFLFFFRRPFFFFSFFFRLWEVLYFIMCHHISDAYPPNVDMNKE
9192	23093	A	9260	417	219	SVEMGFLHVQGASIQLPTSGDPSASGSQSAGITGLSHCARPHSQLSIVCCYSVPVQCLHSLAARY
9193	23094	A	9261	408	172	CPNHFRKWGHRCPPPRVFFFGRDGVYVAQAGLELLDLSNSPASASQSNNGTTGMSHLGQPLLFIINDVIAVIPLOGSF
9194	23095	A	9262	401	132	HQDNKPAPPFGFFFSSPPPKGFFSKPFYFVSPRFFPFPFLNPAPLFYFWGPKKKIFFFFPPPAIKFFFKRAPPPLFFFFFFF
9195	23096	A	9263	393	220	LFFLNKIPFFPGGSKGDDFGPHTNPPP GVKPIFRPHPPEEGGPKGPPPRPREFFLGF
9196	23097	A	9264	206	438	FPILKTHFRLGTVAHYNPTTLGGPGGRNTCSKFKTSLGTVGDPPFHKSSENCLGWGVPNCGPCFWGAQQKSAWSEG
9197	23098	A	9265	333	48	ALLAGPTPFPLGLKKKTRFGNRALFFFFFFFFLNEVLLCNPGWIMVVAIHRCDHGTLQPPTPGLKRSSCLSLSWWNYKLKPLHPAGVRFLDFVS
9198	23099	A	9266	3	275	TGFHHIGQAGLKLTLGDPPPLSASHSAGITGVSHHAWPMHLESYWRVQYPFMPQVLYFWAPSGAQHCQIIENAIPTLLSRPQE
9199	23100	A	9267	49	226	EPASEAHGPEPCMDADAQREGINVSAVPKNWES
9200	23101	A	9268	159	236	TVDPAREFTMIYSAPLMLADPDEFASVQLA
9201	23102	A	9269	1	208	PRVLVISWPQAILPPWPIKVVGLQAITNYCVFSSGVALAYGIYKQDLPALKEK

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						PRGVVFVDMGHSAYQVSACAFNRGQLKV SIYFFSRLLLVVW
9202	23103	A	9270	1	209	IFNFCVFSSVVALAYGIYKQDLGALEEK PRNVVFVDMGHSAYQVSACAFNRGKLKV SIYFFSRLLLVVW
9203	23104	A	9271	379	263	ESCSVGRLECSGAVPAHCNLCCLCPDSS GSPASSSSRLC
9204	23105	A	9272	312	3	FRREGLAALQPWWPNKVSSKKRKERE RKKERKAKERKERKKEDGATADGISEEAE VIRVHPYPVGFGVLSSEGDIWTEDMRAGR RPHAGESGDTVMPLPQAQE
9205	23106	A	9273	405	246	PTKKNKYLHAPPLFHFFFFIIPNPNNFFF FFFFFFFNFFFFFFKTKGCFFLYFSY
9206	23107	A	9274	2	227	LVEΤGFRHIAQAGLQLLSSSYPPPTSASQ SVGITGVSHQPGPSFHFERKSLGLKTLL LCVKVGVRACFALFFQGSS
9207	23108	A	9275	70	304	NLFLLKASTYPSSEHLYHLPEPTPIVYIRKR LDAMAHACNPCTLGDRGGWIARTPDLLKC SAYRGLSKCWDRYHEPPRVLV
9208	23109	A	9276	2	260	TVFYHVQQALEYTSGCPPALASESAG ITGVSHHAQPFLLILVISLFLPCNCQSFIH SPYRFSFTQLNHGFTNTVLYPLVINISEI FF
9209	23110	A	9277	406	330	PRLVLNSTWTQTIILLPWPKVLGLDV
9210	23111	A	9278	2	160	ELLTSSDPPASASQSARITGMSHHTRLK YIVYRVSRKSKNIPLKHIGIQSFP
9211	23112	A	9279	1	91	GLTVFPRLVWNNSWAQMLPPWPKMLGL OV
9212	23113	A	9280	3	107	LGETGFHHVGRAGLELLNKVMHPPWAPR VLGLQA
9213	23114	A	9281	336	234	AHYKLLLKIKLPGQAQWLTPVIPTLWEA EAGRS
9214	23115	A	9282	3	241	DRPEPCWDADAQREGINASARYPKNWVT TGDPAREFTIMIHTAPLMLLADPDELESV QLAQSWPFGATASLGRSPCRKRN
9215	23116	A	9283	404	277	IFFVETRSHIAQAGLELLGSSDPPYFF QVFTEMSLSQRALF
9216	23117	A	9284	399	231	HYVAQASLKLLYSGDPPASAFQSAEIAG VSHCTWPTGSLSNKIQNNIHSRISSM
9217	23118	A	9286	394	231	AFFFFFFFFGERGFHHVARTVLKLLDSSN PPAVVSQSAGITDVSDFLISLYRIY
9218	23119	A	9287	420	311	LNFCRDGLAMPLRVLVNLNSWAQAVLSPQP PKVMMGLHA
9219	23120	A	9288	398	173	LLSFFYLFYYFFFFILFFLFFFFFF LMFKALLFSCHYFPAMVTFKFSLSIISGV VRTSGYIMLFSYLCLLKTM
9220	23121	A	9289	270	23	TPEQCRGIKLFIYSLILYVRDGVLCCS GWPVVVAIKKCDHSTLQHQIPLSKQASCL SLLSSWEYRYAPLHLASANFLKVTVV
9221	23122	A	9290	273	46	HLLNMPLFTEIWTERLFLFYILCFVFLV ETGFFYITQAGLKLTSDDPPAYASQSA EIIGTSHCTRPICYVNVTNI
9222	23123	A	9291	424	230	CLPFTHSLSLSLSSLSSLSHTHTHTHTH TIYMNK
9223	23124	A	9292	2	146	NLFLVETRSHHVARASFKLLSSSNPPTS ASQSSEITGASHRTWPEVFF
9224	23125	A	9293	393	202	GRERERKREEREREKERKKERKPER

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
						PSGSLTYCVREGITAANLGKRRHKASKTLISHKNKN
9225	23126	A	9294	252	193	GFCCCCCCCYCCCSDKRHPG
9226	23127	A	9295	409	269	SQYFGRLRRVDCLSSGVQDQPGQQGETP SLLKYKIYIHISWAGWHV
9227	23128	A	9296	2	213	FCCGLLIHLIYCKTEYSGQSTVAIHRCN HSVLQPQTGLFKQFSHLSLLSSWDYRYS PLCPAYIFNLSIGY
9228	23129	A	9297	169	408	RFARHGMMSPHEERLPPPAGIRVRPPPPQ AASLGPPRMAPSISRRFQMTPYYKHNDF AGOAQWLMPVVPAWEAEAGGSSE
9229	23130	A	9298	199	51	LHPPPPSLSLSLSHTHHTHTHSHTHHTH TLWLGRPGPAQDVVLVWGNLT
9230	23131	A	9299	1	176	MGSHSLAQARMQWCNCNQSSLQPQPPGLKQ PSPFSLPSSWDYRHVPCLASIFFLKLNYH
9231	23132	A	9300	412	209	MGFHHVGQSGLLELLTSGDPPTSASQSAG ITGVSHRNWPHCGFNLVFLMPDDVKHLF MCILAICVSSL
9232	23133	A	9301	195	347	KIKGFRPGATAHAGNPSALGHQGGRTAI AWEFTISMNSNMGRPCLYRKYKN
9233	23134	A	9302	386	190	GFLFFFPPPKKEVFPHPFILGFPGFFPP PPFFKRAPEFFFWGPKKKKNSPPPRALN FFFKGAPP
9234	23135	A	9303	27	173	SFQLWGHLKVPRIRPKRADHLRSGVQDQ PDQHGKTLSLLKKYKISRRAW
9235	23136	A	9304	374	121	QWCDHGSLQPQPTPGLKQSSCFSLPKRWD YRREPPHPPTSLSPTYIVAWPCTLCPPPLS ALWKHLIHQKCDGVMVLQVPGRTHNVTLT
9236	23137	A	9305	70	196	PQVIHPGQAGLELLTSGDLPASASKSAG ITGVSHHAQPISHF
9237	23138	A	9306	378	256	QKWVSICCPGWSQTFGLQEESCLGLPKS WDYRRQPQPCPLTL
9238	23139	A	9307	206	3	PCHLGWSAVVQSWLTAASNSWPAILPP QPPKVLGLQASLKFLKAGITQVTFSdyn KILNKEIKRGR
9239	23140	A	9308	338	161	HFKKKIYIYIYVYIHTYIYIYTHIHIYT HTYTYIYRYIHIYIYHTYIYMYVYIYIPS LPF
9240	23141	A	9309	503	288	FFLNLDKSQEWWLMPVIPTLREAEAGGS LEVRSRRPASSDPPTSASQSAGIIGMRH HARPVVLRENGRIQN
9241	23142	A	9310	418	309	FFCKNGISICCLPKLVSNSWPQATLQPQ PPKVQGTL
9242	23143	A	9311	442	275	VSPPPILGGGFLSPPFKPPFFFFNLKGP PFPTIPFLIIKGKKFCPPPPFFFFPGLF
9243	23144	A	9312	2	95	HENRLSLGGGGCSELRLCHCTPAWATER DFI
9244	23145	A	9313	318	154	FFFFFFFBBBBBFFFFFFF FFFFFFFBBBBBFFFFFFF FILFIYSLLYVVCVGVLGS
9245	23146	A	9314	388	199	EQPKCVHRIKQIWHICALEYVAAFKKKK VLPYAVIQIKLEDTMLSEINQSWGKYCM IPLIGGI
9246	23147	A	9315	2	97	STPGLKRSSHISL PKYWDYRRGPPGPAS ILF

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9247	23148	A	9316	3	235	TMVNAEGIPIRTTLDNSTTVQYACLLH HLTMKAKSTVRDIDPQNDLTFLRIRSKK HEIMVAPDKEYLLIVIQNPCE
9248	23149	A	9317	253	71	LFFFFLFFFDTKFHHLAQDGFGQLLSSSN SPTASQSGGITGRSHQAWPYVHLLTLQ KLNY
9249	23150	A	9318	425	95	CLLFCPKKKKKKKKKKKKKKKKKKKKKKKKK KKGGPIKKKKKKQP
9250	23151	A	9319	25	214	VRIDDRPEPCMDADAQREGINSSARYPK NWVTTGDPARECGMIHSAPLMLADPDE FVSVQLA
9251	23152	A	9320	50	231	GHRPEPGRDADAQREGIIASARYPKNWV TTGDPARECTRIQSAPLMLADPDEFV VQLA
9252	23153	A	9321	401	226	QWLFTNMIIIGHCSLELLGPSNPPISASR LAATGTGTRHHAQPSKFRNLKGWLCAKRA RT
9253	23154	A	9322	410	159	LGSLQLPPPGSKRFSRLSLPSSWDYRGC SELRLRHCTPAWVTEQDSVPPKKKQIF RPFPFSYGESLGVLRLHLCFSKPSRRF
9254	23155	A	9323	310	25	KWGGLFFFSPPKRGFFKQVFFCVPVF FFPPFFFKTGPGDIFLGPLKKKIIFPPPG GKKFFFKRGPPFFFFFFF FSEVECVCCLCR
9255	23156	A	9324	406	289	PGFYHAGQAGLKLLTSGNPSASASQSAR ITSISQRTRPH
9256	23157	A	9325	1	116	LHSVLLPFFYFCVCVCVCVCVCVKHK YVRAGGAPGR
9257	23158	A	9326	2	158	FIFLFTVGGLTGIVLANSSL DIVLHDTY YVVAHFHYVLSIGAVFAITGGFIH
9258	23159	A	9327	3	107	RGCSEPRLRHCTPAWVTEGDCVSKKKK VPEAWG
9259	23160	A	9328	257	2	GFFSNISASVIIPPPISRKNLFFPFRVY FGPPPPTFKGPPPFFFFFFFLSPRLECSG VIMAQCSLTLPGSSDLPLSASCVAMTVS I
9260	23161	A	9329	66	384	GNLCGWMKSMAWDNPVVRKADWGQIRES LECPQNTGMLKKKKKKKKKKKKKKKKKK KRGGPFLKISWGGPILGGGRGKIFFFFF GGILTPRGVFWKSPFFFWGKKKK
9261	23162	A	9330	1	98	IIGQVASVLYFTTILILIPTISLIENKI LKWA
9262	23163	A	9331	33	412	NLFYVMAEILHHTIQLCCQVKLHLSVPR PSLPLLCCWNFSVLHEHSQPASEKKKK KKKKNNKKKKKKKKKKRGGVFKKKPGGAP FCGGGENFFFFFFGGGLKKPRGVFGKNT FFWGGEKRPPPPY
9263	23164	A	9332	401	311	PTRPVDLLVDDSVKESLIGYGPTEDSKE FS
9264	23165	A	9333	5730	452	TRSAPRAASWLEDPREVRSVCLSATFFT LSLQKPRLLLFSPSVVLGVPLSFGVQL QDVPRGVVKGSVFLRNPSRNNVPCSPK VDFTLSSERDFALLSLQVPLDAKSCGL HQQLLRGPEVQLVAHPWLKDSLRTTNI QGINLLFSSRRGHLFLQTDQPIYNPGQR VRYRVFALDQKMRPSTDITIVMVENSHG LRVRKKEVYMPSSIFQDDFVIPDISEPG TWKISARFSGLESNSSTQFEVKKYVLP

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						NFEVKITPGKPYIILTVPGHLDEMQLDIO ARYIYGKPVQGVAYVRFGLLDEDGKKTFRGLESQTKLVNGQSHISLSKAEFQDAL EKLNMGITDLQGLRLYVAAAIIEYPGGE MEEAELTSWYFVSSPFSDLDSLTKTRHLLV PGAPFLQLALVREMMSGSPASGIPVKVSA TVSSPGSVPEVQDIQQNTDGSGQVSIPITI PQTISELQLSVSAGSPHPAIARLTVA APPSGGPGLSIERPDSRPPRVGDTLNL NLRAVGSGATFSHYYYMILSRGQIVFMN REPKRTLTSVSVFVDHHLAPSFYFVAFY YHGDHPVANSLRVVDVQAGACEGKLELSV DGAKQYRNGESVKLHETDSLALVALGA LTDALYAAGSKSHKPLNMGKVFEAMNSY DLCCGPGGGDSALQVFQAAGLAFSDGQ WTLSRKRLSCPKEKTTTRKKRNVNFKAI NEKLGQYASPTAKRCCQDGVTLPMMRS CEQRRAARVQQQLDCREPFLSCQFAESLR KKSRDKGQAGLQRALEILQEEIDLIDEDD IPVRSFFPENWLWRVETVDRFQILTLWL PDSLTTWEIHGLSLSKTKGLCVATPVQL RVREFHLHLRLPMSVRRFEQLELRPVL YNYLDKNLTVSHVSPVEGLCLAGGGGL AQQVLVPAGSARPVAFSVVPTAAAASVL KVVARGSFEFPVGDAVSKVLOIEKEGAI HREELVYELNPLDHRGRITLEIPGNSDPN MIPDGDFNSYVRTASDPLDTLGSEGAL SPGVVASLLRLPRGCQEQTMIYLAPTLA ASRYLDKTEQWSTLPPETKDHAVDLIQK GYMRIOQQFRKADGSYAAWLSDRSSTWLTA FVLKVLSLAQEQVGGSPKLNQETSNNWL LSQQQADGSFQDPCTPVLDLDRSMQGGLVGN DETVALTAFVTIALHHGLAVFQDEGAEP LKQRVEASISKANSFLGEKASAGLLGAH AAAITAYALTLPKAPV DLLGVAHNLMAMAQETGDNLYWGSVTGSQSNAVSPTPAP RNPSPDMPQAPALWIETTAYALLHLLLHEGKAEMADQAAAWLTRQGSFQGGFRSTQ DTVIADLSAYWIASHTEERGLNVTL SSTGRNGFKSHALQLNNRQIRGLEEELQ FSLGSKINVKVGGSKGTLKVLRTYNVL DMKNTTCQDQLQIEVTVKGHVEYTMEANE DYEDYEYDELPAKDDPDAPLQPVTPLQL FEGRRNRRREAPKVVVEQESRVHYTVC IW RNGKVGLSGMAIADVTLLSGFH ALRA DLEKLTSLSDRYVSHFETEGPHVLLFD SVPTSRECVGFEAVQEVPVGLVQPASAT LYDYYNPERRCSVFYGAPSKSRLLATLC SAEVCQCAEGKCPQRRALERGLQDEDG YRMKFACYYPRVEYGFQVKVLREDSRAA FRLFETKITQVLFHTKDVKAAANQMRNF LVRASCRLRLEPGKEYLIMGMGLDGATY DLEGHPQYLLDSNSWIEEMPSERLCRST RQRAACAQLNDLFLQEYGTQGCQV
9265	23166	A	9334	46	324	SKYLPPVITFQHEIWVGTNIQTISDWVL ICCPGWSAVTQSRLAAASTSWAQAMSSS SCGLLSSSCYRRHTPPCLANFVAFVETK LYTMPGLS

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9266	23167	A	9335	338	178	EVDIAVSHRRKQAFNLCLLCKPHNNCL NLEGGGSSELKLKYCYCIPAWATDQSL
9267	23168	A	9336	396	254	KLSSTDCTSKEIINRHPTWEKIFANYAP NKGPTSTIHSSCLMFPYLF
9268	23169	A	9337	454	359	SSWDYRHAPPANFVFLVETIFIQGEI GLL
9269	23170	A	9338	540	328	IKKRGAPRGGVVLFFFTRKKFFSYYKK TKRVSFLFVAPGCIQGGKKKKPPTKKK KKKKKKKKKKKKKKKK
9270	23171	A	9339	21	209	AEEFPDFKLYYKANQNTYRGQWNRTETS EITPDIYLGIQLVSNSWPQVILLPWPK VLGLQA
9271	23172	A	9340	345	2	KIFFFLIVILFFFNNNNNNNNNNNNNN FFFFFLLENRWFLMENFIKGRGHVKGPLG QARDHDISGRRRWRREQCRASQLPGVRR SLLQVQAGGPVHIRISGLQDARQGPRVA GA
9272	23173	A	9341	15	252	LERVIRQSAALTDSFFNFILLILFIYLF FETGSPCVCQAGLKLGSRDPVVSASQS ARIIGVSHRAQPALTDFPSISF
9273	23174	A	9342	484	276	RHAPPCQANFFVQTRFCHVAQSGLKLIR SRYLFASAFQSVRITCMSHCARPLYFLM FKRLQYLKSPTKS
9274	23175	A	9343	464	326	LVETGPHHVGCQAGPELLAPCDPPAPASQ SAETTGMSHRARPANFV
9275	23176	A	9344	486	280	SFSHSHSCSLPSSWDYRCTSSH LANFFF KRWGFTILPRLILNSWPQVILLPQSHRH EPLCLETLKTILNV
9276	23177	A	9345	276	179	DRDFTMLPRLVLNSWPKTILLPLPPKIL RLQS
9277	23178	A	9346	45	143	RWNSRQEENCLNLGGDCSEPSLCHCPA WATE
9278	23179	A	9347	229	73	PPPHMIFFFFFFLFFFYFFFFFF FFFFFFFFFFSRQLQSVYCSSVLNKNVD
9279	23180	A	9348	391	139	IPLSLKRSSHLISLAKCWDYRKPPCQVTF SFLNVRIYATKFFLSTPLAAWSKYWYLV FLLSFSSKYYLTPISFLFLTHNVSSIF
9280	23181	A	9349	53	191	IYVTIWIYSEVSHAYNSSTLGGQQGRIT GAQEFKTSVLNIAKPLLY
9281	23182	A	9350	373	235	EEGELLEPGVQGCSELSWCCHCTPAWGTE QDHCVSYNNSNTHNNVN
9282	23183	A	9351	476	82	YLATYLPTYLSTYLPTYLPIYLYL GSHYIAQAGLKFLGWVGHNGSCL
9283	23184	A	9352	286	142	ELQFKMRFGWRHSQTISWGLSLLPRLIS NSWAQVILLTWWPPKVLGIOA
9284	23185	A	9353	3	102	FFETESHESVARLEYSGAISAHC TPVIKL YLYT
9285	23186	A	9354	3	270	TAGAPPRPANFCIFS RDGVSPCWPGWSR TPGLRCDP PASASQLLGRLRHENCLNLG GEGCTGAILAHCTSTLRQAQAILQPQPS PAPQ
9286	23187	A	9355	1	112	GE GS AHC NLCL PGSS NSPASTS QVAGIK GVSHRARP N
9287	23188	A	9356	1	63	VALIQAYVFTLVLVSLYLDNP
9288	23189	A	9357	244	140	QRRHTHTHSHTYTHHTHIPNKKIPLT ILK CIA
9289	23190	A	9358	464	181	LGAGGMTGILFSLGASMVLGGVAQMLAP



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						APITSTTLSPITSTTSTTITSTTSAPIS SNKLHKKKKKKKKQKKKKRKNDDTKQD TITKIHSGGGSL
9307	23208	A	9376	69	160	EHTHTHTHTHSHTHTHSHLPERFFCVLN SL
9308	23209	A	9377	336	199	EGITASARYSKNWVTTGDPAREFPMIQS APLMLADPDEFVSVQLA
9309	23210	A	9378	321	128	EPGFTMWASLAPTSSLQVIIHRLGLPKCW DHREPPHPAYHSLYESGPVQNGEKG INPIIKMG
9310	23211	A	9379	440	286	SSDPSASASKSAGFTGMSHTQLLTSYS EGECLSYLVFLVLV
9311	23212	A	9380	392	154	KGSPLSPPIPLLAGKPPPRKFFLNFF FFFINRDRVSPCPLPRLVSNSWPQAILPPQ PHKALGLQAYATTASFIFLIVTV
9312	23213	A	9381	403	178	GRRHEPCRDADAHLEGIIFS AFY PKNWE TTGDGAREWTMSNSAPLMLADPDEFVS VQLA
9313	23214	A	9382	303	206	DPVSTKICSLQPPPPGFKRFSCLSLPSS WDHR
9314	23215	A	9383	215	116	SNNFVVCCCCCCCCCLRWSLTLSPLRH SCGM
9315	23216	A	9384	2	285	ARHLLMQLSGGATLAISTIDL PSTLII F TLLLTTILEIAVALIQAYDITLLGSLY LGDNTYKKKKRGAFAEETKFTSAGMQSK NFFLGTLNWR
9316	23217	A	9385	12	123	GYENFLLPTLHTQTTHAHTHTHTHTH HSKDPMEY
9317	23218	A	9386	3	230	KCWGYRCEPLRLAPLRCFFT PGGISLTS GPALLSNASALAEVRGQOLCPPTPFLPT LIALTLLLPISPFILIL
9318	23219	A	9387	590	396	ARVQWPDLGSLQPPPGFKRFSCLSLLN SWDYKCAPPCRADCIFSRDGVLSWCWPG WSQTPYLK
9319	23220	A	9388	224	79	GLGPVGHACPTLWE GEAGGSRGQEIEAL PANTVKPRLFKKKKGKKKG
9320	23221	A	9389	249	72	LVYLITVKKILFPVHIRT FNKIDHMIGH KTCCLNKLQMTEILQSVFSdynRIKLEAS NN
9321	23222	A	9390	400	254	LRQPGSTNSTPVSASRVAGITGTGHHTQI IFVFLVEMVVHACNP SYSGG
9322	23223	A	9391	3	64	PPQKSDPPYKLVPVHLD SIL
9323	23224	A	9392	266	106	LTANFLFLVETGFPVTRVGLLELLASSD LPTLIASQRAGITGVNHLQNFWPGNF
9324	23225	A	9393	430	348	FGKPQPPPDKGSPPPRGNFPQKAPKG
9325	23226	A	9394	481	311	LSLSEKRSIRGVTRFSRCCPSPLSLTG KGNSLTPGVVSQEIHSPPWFGIAYSVCTR
9326	23227	A	9395	3	136	VFPRLVLN SWAQMILLCWPPKVVLGLQAC TTRPSHFLPLLNSKYK
9327	23228	A	9396	143	347	NFVFLVETRHHVGQAGLTLITSSDPAS QSAGITRVRPEILTLKRYHFPSGILGTE GMVIEMAYLLKV
9328	23229	A	9397	2	231	LELLTSSDLPASASQSAGITRGSHHARP SFTFRCVIHLEFNFMRGAREERLHFYCR WVIRRLTTFGRGYPSPAASD
9329	23230	A	9398	383	200	QHYLNRRRLSLAQWWMPPVVEPATQEA EAGG LLEPRSSSLQCAMMLPVNSHCTLAWATH

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						REPHL
9330	23231	A	9399	3	416	GFLHVQAGLKLTLTSGDLPTSASQSAGT IGVSHRAGCLKSIYLTFTPTRKFFVQMSI CDFKVEIEGKIGFISVPISLQSILHIVN NFFFLETGSFFFFGWRAWEKFGLIAPLA SGVKIGFLPLPRENLGWRPSPIPPA
9331	23232	A	9400	400	151	FGYPQVFPLPFLKPGPGIFFFLGPLKKN FPFPNGPLKIFSFKRAPPFFFFVRKGLL MLRLVLSNSWAQVIIPPPPPEVLGLQA
9332	23233	A	9401	324	154	FFFFFFKXXXXXXLFFFFFFFLFYIFFF FFFXXFXFXFFFFFFFFFFFFFFFFFFF F
9333	23234	A	9402	413	312	PKLVNLNSWLQALLPRPPKVLGLQARAT ITQPK
9334	23235	A	9403	363	3	FKKKNFCLGGAGVVFFFFYDPPPKNIF YFPSKKIYFLSPASSSSFFFLCFPFFIF FFFFFFFFFLENRWFLMENFIKGRGHV KGPLGQARDHDISGRRWWREQCRASQL PGVRPRV
9335	23236	A	9404	401	82	SELPHDPINPTTGYIYPKKMKSVCFDTI CTPMFTTALFSIAKIWNQPKCLSKRITI FMFLVTYSQFLCTHYPLPYPPFPAPLS SSHNYHYTLYLYENILLDSTYE'
9336	23237	A	9405	382	219	WARWHGFLVPTSPGGEAGGSLEPGKRRV QLTQISPLPSSLGGKVGLPLKKKKNN
9337	23238	A	9406	3	195	YLYSLVETGFHHVGQAGLELLISRDPSA LASESAEITGMHSIQPKSAFYIQIPET FWQPAFK
9338	23239	A	9407	371	1	FRRRLKNRNLNGLNGGCSEPRLCHCIPA WETRAKLGKKKEERKREKGTKMYNKMY KMYLELNLTCPPEPASPQKOMTRQLEVLS NPSPGTFQFICKKKQFKFSCCFALARVSIY LLMSVFEYCSC
9339	23240	A	9408	326	229	RQGLTMLPRLVSNSWAQVILPPWPKVL GLQA
9340	23241	A	9409	81	231	LESASFPPGKVAHTCNPNTLRCAGWIA WAQKFKTSLGNMAKPCLYKIK
9341	23242	A	9410	367	256	HPGWEWWLVSVIPTLREAKVGRSLEPRS LRLAWDTWG
9342	23243	A	9411	2	192	VFLVEMGFLHVQAGLELPISGDPPASQ SAGITGVSHHAQALTFLNIPINPSHPPK ACCSKQL
9343	23244	A	9412	3	83	KNCNLGGGGCSELRLCHCTLTWATE
9344	23245	A	9413	371	301	EDHPRMVILRLLRYIVRLVWRMH
9345	23246	A	9414	486	337	AGLELLGSSNLPALTSHIAEITGMCHHT WLAYIFVCAFVGWVLLLDLCLAF
9346	23247	A	9415	378	254	IVAHCSLDLLGSSDPLTSASRVAGPTGM CHHVWLIVVFFVC
9347	23248	A	9416	160	309	VVRYSSNEFLFYLFKSNFTVFCCC YCCCCCCCWRQSLTLLPPKLECGV
9348	23249	A	9417	162	339	RPSFCFELHDSVPELALPMKARFEKSR RSQVSWLMPVIPTFWEAKVGRYQARSLL PA
9349	23250	A	9418	1	147	GGGGCSEPRSCHCTPAWATRVKLGLFKK KKKINFLFVPPFIFLKSKTGV
9350	23251	A	9419	283	126	KMMYKGQAQWLIPAPIPAFWAKERGLLE VRSLRPawanEQDSTATKNNKNF

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9351	23252	A	9420	133	3	ELMFSWAWWIMPVIPALWEAEAGGSRGQ EFKTSPLPNMKPRLN
9352	23253	A	9421	3	133	LRLGLYSGAGIIIRFEAKKNALALWAIDI AGDNCAICRHNIMDL
9353	23254	A	9422	409	291	ILILGGGSCSELRSCHCTPAWATRAKHL LKNKSPINVY
9354	23255	A	9423	1	210	RFFFLGLSKHWWDYRCESPHAGTRNEVLI YATIWMNSENIVPNEIIQTQRTNIVSFY LYQVGRIGKFIDRR
9355	23256	A	9424	479	306	GVPTNQPWSNRVKTPSPTKNIKISWPWW CMPCNPSCSEGQQGRRIALNPGRWRLQ
9356	23257	A	9425	1	209	GFFLFQGGGGHAGQAGLELLTSGDLPAS ASQSAGITGAGPNQGIFVALESPMESAA LLHLHVVLSSPCs
9357	23258	A	9426	628	433	RQGVAHLPGMECSTGTITTHCSLELLGSS DPPASASQSSRLAVVSHCAQPSLLFSVLCLKPIFCCA
9358	23259	A	9427	417	125	FLRQLSLTSSPRLEYNGAIPAHCNLCLPG SSDSILASQSIIRITGVNHTWPDAAVL RQNFFFSEKPKQFYSEGFQQTHI IKSNLLYLKSTKCTCYPYL
9359	23260	A	9428	366	256	SFFYRDRSLATLPRLGSNAWSQAILPPG PPKVLRLLA
9360	23261	A	9429	3	140	GFCHVQAAALKLISSDLPTSPSQSAGIT TVSHCARLTRLFSSHE
9361	23262	A	9430	368	3	VRASQLLCLPTQASAMAGTPPPASLPPCSSISDCCASSEQGSMGVGPSEPGAGYNLVVCSSLRTLEKCSIRVGVPQFSRCHLSQ LPLARKGNSPTPCASCWVRRCCLTLQLML RGLYPLSCT
9362	23263	A	9431	3	131	LTMLPLRVNSWAQGSSHLSPPKCWDYR CEPLHSGLKDIFILE
9363	23264	A	9432	384	274	LSFAMILPRLVINSWAQESAHGLPKCWDYRHEPLGLA
9364	23265	A	9433	431	273	PPFLGYFFIVKMEFPPVVQDGFKLNNSS DCSTSASPGRISGVNHSTRPRIF
9365	23266	A	9434	211	473	CVCTFFSFLSMHIFFFLFLVGEAESHCVT EAGVQWHDLGWQPPPRLKRFSCSLSPSSWDNRRVPYPANFCIFSRTRVWSCWP GWS
9366	23267	A	9435	391	188	LPGSSDSPASASRVAAGTTGGCRHTVLLG FEFKDNRIRWIKLVEKAHTQYGNIIYICVI KYMPFLFYPYHH
9367	23268	A	9436	331	115	SRDRGFAMLPLRLVLSWTQAICSLDSQ SAHLSLPKCWNRYREPLCPASGEILSFI KPSSSKSFHNSTKKRQ
9368	23269	A	9437	3	109	IYGYSYSLPACFFPSFLPSFLPSFLPSFP PFPLSFF
9369	23270	A	9438	2	167	ECNGAISGHNCNLCLSGSSDSPAPAWATR VKLRLIKKKKKKKNNQILFFYPPRKTLF
9370	23271	A	9439	648	310	VCPCLIRHPAFLFAKSGNPLESSLLDHS SPTFKLTDRENLRHVCKTSHSQSLPTSG FQPLGLPDSTLCAWYPTRSPKLSPAGWVG GYRAPVGRGPGSRNSWRWLHWTPIITSVGD
9371	23272	A	9440	1	170	YEIWFLDVVGQAGLELLTSGDLSASGSQS AGTTGMSHHARPLKLFTISVSSNKKVKC
9372	23273	A	9441	133	244	LFGYQTRGLIAMLLKLDNSNSWPQAVLPPQ

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						PPKVLGLLA
9373	23274	A	9442	365	176	RGSMDMVPSECTGYNLLMCPLLRPLEKRSIRVGVTFRSCHLSQLPLARKGNSLTPCASQVR
9374	23275	A	9443	368	231	VEAGFCHIAQAGLTFLSSTDPSALASRSARITGVSHHARPIFLKE
9375	23276	A	9444	88	194	KMLEAKKKIEQQGGFTFENKGVLASFNF GTVPSNN
9376	23277	A	9445	3	349	IRSGSYACYFCYPRECYALFHCVSMIVSYGPFMNMIDQRHESRLSTIYIFKFEIGSKHVAQAGLELLCSSSPPAFTSQSAGITSVSHHTRPQKIFNVVIYSCDLHFHPGIEG PQR
9377	23278	A	9446	3	141	HAECSSMMIAHCELELLGSTDPPASASQSAETTGISYHAQPYSTF
9378	23279	A	9447	2	282	ICPTRSRFPVRVLKNGRKKDRLECSGAI SANCSLCPLPGSSSDSPASASRVAGSTVAEEDSTRRAVRHQGSSRSAPSGRGSGWAGKQERADRAQQS
9379	23280	A	9448	307	430	GLAWWLTPGIPILWEAEVGGSLEVEFET SLASMEKPKSLYYK
9380	23281	A	9449	2	253	IQCVCVCVCVCVCVCLSVCLHFIAILGC SPWGSRRLPCSVPSSPSGRGPGGEDLSPLP PTMSVSPEADFPPLAAAAPGNIMTAIT
9381	23282	A	9450	1	166	NTGGGGEIIRVFSSCFAEDRLQKGKDPRGAVAHACNRSTLGGRRGGWITRSQIFFC
9382	23283	A	9451	1	123	NTRGLVMLPRLVNSNSWAQVILQPLPPKV LGLQASVTVHINN
9383	23284	A	9452	396	291	SLCIKRCVACACVCVCVCVSGAKLRKLV LDFMRS
9384	23285	A	9453	1	147	FAIRARFSNTTYTKIGTIHTYIYIYTYIYTYYIYTHTHIYIILSQVLMYEYF
9385	23286	A	9454	394	235	TRSCYIAQSVVQWLFTGTLLIHYNLQLL SSRDTPVSASQYLGLOAHTTTPDSC
9386	23287	A	9455	1	85	TNPVATLLEWQDALCFIPVGSAAPOQGP
9387	23288	A	9456	339	165	KTHWWGKKSFLKNPFFFFFFETKSRSTV TRLECSGVILAPKQTKQNDKTINTKT I
9388	23289	A	9457	3	209	LLILFSIKMRNRPDSPALLSTQLPPIFYIHTHIYIYIYTHIYIYIFIYIYLYIYLFA YIHIYVSLFPLK
9389	23290	A	9458	374	156	QAGLELLTSGDPPIASQSARITGLSQR AQLSELTTLVFTTRHCTLCAGHFLYYTV FLEGRNDDEFISIPST
9390	23291	A	9459	287	3	EAGLLWRKATHKYAHTHTHTHTHTHTHIEGLQNMINCKYITYQEIMTLAQAKNKGV IPDSFPFTSSPLTYPPALSFHFQKHIP NKRTTYHGHC
9391	23292	A	9460	3	72	KTELKMKFTNILESSFLMNNKS
9392	23293	A	9461	327	92	ISLFLVVGALFFPKKIIYPPKKKSPAFF PPPPPQENFNPPSFLAPPVFPPQENPKF AGGRKIFCBBBBBVFYYFFFF
9393	23294	A	9462	3	173	ACRGDSGGPLVTRDLKDTWYLIIGIVSWG DNCGQKDKPGVYTQVITYRNWIASKTGI
9394	23295	A	9463	258	39	LKVILPSDPSSIFVCLFLENESRSVTQAGVQWHDLGFKRFSCLSLLSSWDYRRVPP PPAKFCIFRKHGVSPEC

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9395	23296	A	9464	104	336	NHVSQCEEIFLFDEYYIFSRAVASMFVV DAELGSDIYLDGKLKNSFLSFLGFFFF FFLGKKVFFFSONGGGLGRPGQ
9396	23297	A	9465	410	0	LNLGGGGCSEPRLCPTPAWATE
9397	23298	A	9466	254	61	KKKKDAFFTIPLYPSSQNLFATQMDPD TNISQLTWTVLPQGFRHSPPTFLDKPF KQTSINFA
9398	23299	A	9467	403	255	PAPOLGGPPMMPMMAAPPSSWMMPMGCAP AMRLPIGGDIIWLCVPTQISP
9399	23300	A	9468	1	1428	PARFKDLNLAGTAGVGLAGYFMDHTVAF RDLPVRMVCSSTCYRAETNTGQEPRGLY RVHHTKVEFMFGVTGPGLQESQLLEEF LSLQMEILTELGLHFRVLDMPTQELGLP AYRKFDIEAWMPGRGRFGEVTSASNCTD FQSRRLHIMFQTEAGELOQFAHTVNATAC AVPRLLIALLSENQQKDGSVLVPPALQS YLGDRTITAPTHVPLQYIGPNQPRKPGI PGQPAGPRVGYKALQPWPQAQRLGPVGRP PCRPEGQPLSCCCCGCSCWGRLLTRCLAE VVTEVLTVGQVQRGPCTALLHKELCGTE PHGCASTEEKGLLLGFKKQEAGKMRSS QEVRDEEEEEEVAERTHKSEVQEQAIRMO GHROLHQEEDEEEKEERKRGPMETFED LWQRHLENGGDLQKRVAEKASDKETAQF QAEKGVRVVLGGDRSLWQGAERGGGER EDLPHHHHHHHHOPEAEPROKEEASERE
9400	23301	A	9469	265	170	GTESHSVTQAGGQWLNLSSLQPLPPGFK QFS
9401	23302	A	9470	289	110	RDLELASFLSFFPSFLPSFFPSFLPSFL PSFLSFSLFISFFPLPSFFSFISFSLSL FFE
9402	23303	A	9471	67	210	TVTGQALTHAYNPSTLGGRRGGQITRGQ DFETTLVPGDLNFSRVLASS
9403	23304	A	9472	2	186	TSLWRQAKKNVEKKTDKYTEVLKTHGLL VCTQKSCSFLKNKNKAWLKGQANAPARK VEIRC
9404	23305	A	9473	417	265	FLLSFLFFFFFFF FFFFFFF FTV
9405	23306	A	9474	430	120	ASQKKKKKKKKKKKKKKKKKKGGAL
9406	23307	A	9475	1	150	PTRPVVQAGFKVLSSGNPPALVSQCFRI TGVRSHRARPHLLNLRAPNLPV
9407	23308	A	9476	404	109	PPPLFFFNFGPFFLVEARLHVQAGLKL PTTSQPDASQSAGFTGVSTRAQPTLI TLY
9408	23309	A	9477	391	235	PPFFFFCRDRGLTMLPRLISNSWAQVIL LPWSPKMLGLQARATVSGLNKRY
9409	23310	A	9478	438	277	KRAPFFFFCRDRGLTMLPRLISNSWAQV ILLPWSPKMLGLQARATVSGLNNRYS
9410	23311	A	9479	399	279	PPPPVFKNPPPKNKGAPKKNISPPPG RKKYFFFKGPP
9411	23312	A	9480	247	26	LKAGDDSRVLGKVHQSPCFSLLLFFIQ VSCRDEGLTVLPRLVLNNSRPQAILLPQL PKLIDHRCEPPHLANHG
9412	23313	A	9481	2	176	HAPPHPANFLFEEKESCYVTQVSIKLL DSSNPPALTSQSAGITGENQHGHPMNCL SG
9413	23314	A	9482	2	178	HAPPHPANFLFVEKESCYVTQVSIKLL DSSNPPALTSQSAGITGVSHHGQPMNCL SG

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9414	23315	A	9483	2	151	GRVGEGPVELVSSLVLDQHPVGTSDHRDA TQLGFQPLMSDLGSTGSTEGA
9415	23316	A	9484	420	325	FFVFLLETFGHFHVSDGDLVICPPRPP NTFV
9416	23317	A	9485	400	104	LFFFLLFFFFFFFWNPPPCTFFKKV FGFLNFPTLKLKFNP PPPGPPKKKKEL
9417	23318	A	9486	117	280	SSTNQANNCFFFKKRGLAILPRGALNP WAKILLPWPKGLKLRGGAIGPGOK
9418	23319	A	9487	76	353	VLWNTLEFCYLDDLFLLFFNKEALIR KKKKKKKKKKRGGNKKEKKKTPWQEKA AGLFLGDTIIYSRGAVLKNSGGETPRHT PSGGLWPR
9419	23320	A	9488	3	122	HASEDNVFLHCSHSDLGYVLLAGTASLQ DFSSFKQSPPP
9420	23321	A	9489	1	155	PTRPTVCSCGMLAHCNLCLPGSSESLAS ASQVAGTTACTSTPDPFFFFSL
9421	23322	A	9490	3	212	ETGFHHVGLSGFKLLTSGDLPSTSASQSA GITGMCHCVWPQFAYFCCLLVYLDHLKF TIIMLVLCLLFYD
9422	23323	A	9491	2	163	ETLFRHVGQVSFEPLTSQDLPASASQSA GITGVSAMPSWMIKFFIAFYSCINC
9423	23324	A	9492	474	296	SQPAGTADCLLPLPPGSCFTIIPCPAAL VPLPSFPSARLWPPQSLHQQLLPLPGTCS SCT
9424	23325	A	9493	7	151	LCAVEFVYMKPPAHEEAKAPSRGFVVRY APWTASSSEKGRDDGMGPRA
9425	23326	A	9494	52	363	TTAPSLSVFLFTFTGELFVYWWVGVTLE TSFISFFLFFFSSFLEKDFSFSAGRPWP NFGLIQPLASGVGGISRPNPPSRWELRA LPPPPIGLGFFFWKKGGPPG
9426	23327	A	9495	383	118	WKPRPVPPGAGVQTFFGPQGETPLFLK KKKKRGRGGPLFGPPSFGGGGEIPLTP APKGQEIYFPBBBBBPGKKSLFQKKKK KRIR
9427	23328	A	9496	554	419	FFFETKPCSVSQAGVLWRDFGSLQPPPS QVQRDSPCPQASQVAWD
9428	23329	A	9497	428	281	GSYVQLTFKYFSIYIYVHHLHVLYTH IYVYVHICIYKEGYITGSVLA
9429	23330	A	9498	144	16	KVKKKVSQCPGIVAHNCNPSTLGGRGR IAWGQEFEETLSLQKN
9430	23331	A	9499	2	155	NLALLGSSDPPVSASPVSAGVIRGVHHHAQ LIFFFFFGKRAWFNPPPGGRKGE
9431	23332	A	9500	2	184	FIYGRDSLTLMLPRLVLNWPQAILPPRP PKVIGFRCEPPHLASLILFYRDILFTIG LKS
9432	23333	A	9501	465	153	PHKVFLNKGPFETPQGELSRSGEWKTRPP PPRERSRPFPHRKGFGSPPKLRQGPPFV FFSWPPWCPPPDKGARPQQKGFFYFPPP FFNNPFFFFFCLFFFIEIV
9433	23334	A	9502	429	11	CRTLLGADCVCVCVCVCVKAFPP SYSCHLVPSDLPLLGVQFKCVCVHFGLSF LTCPPSPPWPGGAQPGSCYWGCLCL FACKLGARLTEQTLGIPASGPGTWATPL GSCASVRLRLPGGSEERDTDLKVSVLSG
9434	23335	A	9503	436	202	LPGGYIFQGEGEVEKTKFSPLLRENNFFS NFFPPKKNNGGGPRIPPPPPPLFKKGV FFIPKFPAPPKPKFPKKKK
9435	23336	A	9504	3	112	SFDLSSSDPPALASQAGITGVSHSG

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						QKVYICNM
9436	23337	A	9505	426	208	VGHNLLVPRFLSPSEKRSIQVGVTRSSR CRISPLSLSLRKGNSLTPFASRVRCQLTL LRLARAPTDLRLPLSGTP
9437	23338	A	9506	441	189	CPANFFVFLREMGFHVGQAGLLTSSDP PASASQSAGITGLSHCARPTVGSDVLSL PSGQCTSALTGFMLGSTTVHSNAAARA
9438	23339	A	9507	117	278	NKALLCHPGWNHNIKKVNGLGMETHTCN PTTLLGGQQEFEENSLGNIGRPHLYK
9439	23340	A	9508	3	126	FFVEMGFRCVGAGLRLLTSGGLPVLAS QGAGITGVSHCI
9440	23341	A	9509	421	134	FLEVERRSHHAAOSASLEILSSSDSPTSAS QCAGITGMSHCARPKYTSFRLHRHMPM ATPTKLPPTLASASPQVKVCLYPPLPST SKGEIFTLQLY
9441	23342	A	9510	2	200	PQPPTFYPSFLPSTPEPPAFYPRLLPPST PASRLLPQPPAFYPSACHLLPQPPTFYPS SLGNRARLHL
9442	23343	A	9511	414	204	ERDRKKERKKEGRKERERERKKEKKRK KKERRKEGRKEGRKEASKGQRVVVIMVD T
9443	23344	A	9512	1	211	FHHVGWAGLGLTSGDLPASASQSARIT GMSHHARHRHGFDNLSCALAPSPTPLW RRHRRRGHFTVPEK
9444	23345	A	9513	390	265	VFLVEMGFHHVGQAGLELLTSGDLPPLE SQSAGITGVSQFS
9445	23346	A	9514	438	180	IGFRHVGAGLDFLPLGDLPSSLASQNAR ITGVSHRAWPAMAFVNCHGAGGSVAMRT TRGHSCRHLGIGGGFWPASLLQPVLSSAGS L
9446	23347	A	9515	126	11	RNLDFFFLSLGLAMLSSLRLVNSWPQVIFQA WPPKALRFQV
9447	23348	A	9516	2	249	FLHVGQAGFVLPTSDDFRPTHTPQSSGI TGVSHRTRPLRCYFLRLNNIPLYVYAYY ILIFIHSVISGYVGGCTAHYCHPRKVV
9448	23349	A	9517	403	57	PEGALVPQKKKKKKKKKKKKKKKKKKKK NIKI
9449	23350	A	9518	406	140	PHYNHTFVYNGVRLEDLQHMCLELTVWD REPLASNDFLVGVRGLGVGTGEIPSPILT CLKASCLFYSYHHSRPPTQSSVMVVF FPFS
9450	23351	A	9519	3	75	GIEWMVCVVRNVHRPPRQRDIT
9451	23352	A	9520	183	6	LLTHLILTSALIGEIMVAPILQKNSGSE RECRLLPRLVLSWPQGILLPWPPKVLGS QV
9452	23353	A	9521	89	339	LQCLQKSGKLEPGMTYTKLIDADNVGN ITSVQFIWKKHLFEDSQNLGAEMVINT SGKYGYKSTFCSDIMGPNILQNLKPC
9453	23354	A	9522	3	329	PSLMFPWLKLSPFGPRGRQTYSRYQTL ELKKEFLFPNPYWTTRKRRMEVFHALGLTE RQGKIEWFQNRMMKGKKENTRDNLPEAQN EEKVEEKGIEEEKEEEEKEENRD
9454	23355	A	9523	1	156	AKTSMNVNEIFMAIAKKLPKNEPQNPAGA NSARGRGVDLTLTEPTQPTRNQCCSN
9455	23356	A	9524	1	272	AKNSARALLGILGYRSHLISSLLEGIT ILSLVIIATLTLTNTHSLLANIGPIAIL VFAACEAAVGLALLVSISNTYGLDYVHN LNLLQC

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9456	23357	A	9525	1	62	GNDAWVCTNDMFRLALHNFG
9457	23358	A	9526	1	111	GDIIHNEENMRQGRDKYKTLRQIRQGNTKQRIDEFEAL
9458	23359	A	9527	427	340	IPIGNIMSCDSHSHHELVMSAQLNAIFHD
9459	23360	A	9528	439	27	PRRTDKWLTVEMTQDGHQVSLLSGELTV DQRASIIQFRFDGKEKVLIPTNVCARGIDVKQVTIVVTDFDLPVKQGEEPDYETYLRRIGRTGRFGKKGLAFNMIEVDELPSPMKIQALFDRGRNKQLNAEVPCIQAAMED
9460	23361	A	9529	1	236	REVLITTNCARGIDVKQVTIVVNFDLP VKQGEEPDYETYLHSIGRTGRFGKKGLAFNMIEVDELPSLMCKIQDHFRKS
9461	23362	A	9530	437	240	QQVSSARPEPEAGEVSPPVGAGVNSNSW AFKYGPNGPNPKQSGPEPKKQTQVSFLLRRKGAEASQPRO
9462	23363	A	9531	413	260	LFDQVVVKVASPGSLRTSTVRYGDPEKLK LEESLRQQAEKGSALSVRISNV
9463	23364	A	9532	431	260	ASSGQMFSVKQQAPPVRDLPPFGISLFG GQIYDNISPRPPQGIVAPPGRGNIPNLG
9464	23365	A	9533	2	134	IHGVCVHMCVCACVCVYACVCVGGYDGR IFLALSSTVPSMVNIM
9465	23366	A	9534	419	53	LLLITNGDRQTQREKIEACACQSYFDAV VVGGEQREEKPPAPSIFYYCCNLLGVQPG DCVMVGDTLETIDIQGGLNAGLKATVWIN KNGIVPLKSSPVPHYMVSSVLELPALLQSICKVRMST
9466	23367	A	9535	439	109	NCTIVIIDSTPYRWYESHYALPLGRKKG AKVTPEEEEILYKNRSKKIQQKKYDERKK NAKISSLVEEQFQQGKVLAQIASRPGQC APADAYVIEGKELEFLSRKIKARKGK
9467	23368	A	9536	1	185	NTTSSHHTFTIPCLVLYSCTSTHTHIHTH THHTHTHHTHRVFSYIPSQDVKEGCIPAP SVFSW
9468	23369	A	9537	168	280	NPNSIRLTSCCCCCCCCCWSKSPYNVYNR LLRTGFTFP
9469	23370	A	9538	142	324	KIVKMGFPHAGQAGLELLTSGDTPGSTS QSAGITGVSHRSRARSIFLYPYLPSVYL PWRRV
9470	23371	A	9539	3	139	YIGGMGQAWWLMPGKPRQNDYLSPGVQD QPGQHSETPSLQKGFKN
9471	23372	A	9540	383	318	MSTQNNIQSYPIGEDEESESD
9472	23373	A	9541	372	207	YGLNMCRCQCFCRQYAKDIGFIKVGVCRRT PCCLGREGCGGYFFRERQTDRSSLEW
9473	23374	A	9542	2	360	ARGDDDHRSSDRKDGVLEEQIERLQEKV ESAHSSEQKNLFLVIFQRVIMILTEHLVR CETDGTSTVLTPWYKNCIEQLQQIFLQHH QIIQQYMTLENLLFTAELDPHILAVFQ QFCALQA
9474	23375	A	9543	379	75	TNLQQFAMSHGSAQVKGHGKKVADALTN AVAHVDDMPNTLSALSDLHAHKLRVDPV NFKLISHCLLVTIAAHLPAEFTPVAHAS LDEFLASVSTVLTSKYR
9475	23376	A	9544	380	56	RDLSMVRMKSMAIGFCFTALMGMFNSTI FDGRVVAKLPFTPLSYIQGLSHRNLLGD DTTDCSFIFLYILCTMSIRONIQKILGL APRSAATKQAGGFLGPPPPSGKFS

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9476	23377	A	9545	304	92	SKSRVTNNTLRSTRKDTMITLNTHSLLANIVPIAIIVFTACEAAVGLALLVSISNPYGLDYVHNLNLQCG
9477	23378	A	9546	394	108	KEIDFSLVDVTADDAGNYSCMYYQTCKSPFWASEPSDQLEILTVPPGTTSSNYSLGNFVRGLAAVIVVIMGAFLVEAWYSRNVSPGESEAFKPE
9478	23379	A	9547	1	335	GNAVGVLNLHRINFDKYHPGYFEKDGMKHYHLHRNQSFCPTVNLDKLRTLTFSEQTRLNAAKNKTGTAPIIDAARSVYYKVLGKGKLPKQPVIVKAKFFGSLIFCFRIWILID
9479	23380	A	9548	326	188	NFLRMGTVAHASNPSILGGLGRIAGAQEFETSLGNITRCPCLYFKK
9480	23381	A	9549	381	152	VTLISLSLLLQVVIGVLLVIARLNLNVEKQWRLNQLNNAATILVFVTVINVFI
9481	23382	A	9550	170	65	IHRSKNKWFHLDGIMNLNGRDYIFSKAIGDAEW
9482	23383	A	9551	544	361	RRLRQEENRLNPEGGGCSKPRSCCHCTPAWATEQDSSSKEKKERKNLKGNTVKSVPLPLTSHA
9483	23384	A	9552	369	181	GVLGATSGDMQIHTFGSMIIGSITGMVESLGYKFLTVSTADVMIQTLNLHFLSHMSHQQKKS
9484	23385	A	9553	1	516	SLHVVEFGQAIARRLKPFGVQRFLYTGQRPREEAAEFQAEFVSTPELAAQSDFI
						VVACSLTPATEGLCNKDFFQKMKEAVF
						INISRGDVVNQDDLYQALASGKIAAAGLDVTSPEPLPTNHPLLTLCNCVILPHIGS
						ATHRTRNTMSLLAANNLLAGLRGEPMPELKL
9485	23386	A	9554	386	56	LFPACVLRWQFASDGGDIGFGVFLKTMGEQQSAREMTVEVLPQSRYNAHMVPEDGS
						LTCLQAGVYVLRFDNTYSRMHAKKLSYT
						VEVLLPDKASEETLQSLKAMRPSPTQ
9486	23387	A	9555	375	150	IVVGKTSFHVISPLSLFFPGDVLYDLLQHILKQSKPRILFSPFFHPGNSIHTQPEV
						ILHQTHEEGTGRGFSFLA
9487	23388	A	9556	3	354	CLPTQASAMVDTPPPALLPPCSLISDC
						ASNEQGSVGIGPSEPGAGYNFLVCRLR
						PLEKHSIRVGVTQFSRCCLSPPSLTRKG
						NSLTPCTSRRVRCALLQLTLSELPHC
						VPSV
9488	23389	A	9557	463	40	PIKVEDPEPVKKPKEQRSIKEMPFITC
						DEFNGVPYSYMKSRLLTYNQJINDVIKEINK
						AVISKYKILHQPKKSMNSVTRNLYHRFI
						DEETKDTKGRYFIVEADIKEFTTLKADK
						KFHVLLNILRHCRRLSEVRGGGLTRYVI
						T
9489	23390	A	9558	338	104	NFKKKKKRRTKKEIRTEEKGRGANKKT
						FRGPKKKETRGSNRSPEGKKNHGAKKEG
						ERRPRKKKKKKKLARYDFTCL
9490	23391	A	9559	1	152	NTCVVCVYTGCHVAQVAHELSSSNLP
						SSASQSAGITGISHHAWPGFGF
9491	23392	A	9560	517	238	SGPGESVPHPWSAVRTRPAKKPGSQCLL
						QSAFPFLWCSSRRTTWAEERKLNTETFGV
						SGRFLRGRSSRGFRGGRGNGTPRRNPT
						SHRAGTGRV

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9492	23393	A	9561	709	280	NTSPALTAPCGRPRGIRPMQCWARVPAPSSACPAWQLPSLCLRSTVPAHPSPAAHOPCELSQHRRGGLEPALPGTRQRQLCSRTWHRCVRFLPQGAQEAGEILGPAAACATGRLPVSHSTDMEQAPGLTLSHQEPHSTARSGGTATH
9493	23394	A	9562	3	130	YRGFCHVGQAGLELLTSGDRTSASQSAEITGVSHRAQPQMS
9494	23395	A	9563	409	160	NPGVKRSPCLSLSSSSGGYWSMPPCLAYYKKKKRRLFKDGGLTMLRPLASNSCAQFSHFGLPQSWDYRHEPLHIAQFFLFSSL
9495	23396	A	9564	1	241	GICLGSNIIGSGWMGTSSLNCNPYSNTLNQNLLSTTKPFPPVPSVGTNCIEPWDSGVTSGLGKMLFLYYYYLLFSQMTPQS
9496	23397	A	9565	2	215	IHWMMNGWMDGWMDGWMGSCVRAVTGPGTSSPHTSTCGHAVCVCVVCVYTCAHVFLALFGVEKNNYFLWKA
9497	23398	A	9566	244	117	DHQHLNWSVFIISFSFKVIKARKNKKGILNPDSMETSPDFFF
9498	23399	A	9567	414	77	FGGVPPGTLVPPPTWLPPVVRVPPPPAFCLGELSPPPWRKG LAPPLNNFFSPGQRGFPSPGGKGPRPLP RPPAGPFGFVAKPPFRPPGFSSTPSDCGGLPFFFFFFFFFFKKKKV
9499	23400	A	9568	418	198	PPVSLTEIVISKSHKAELVFWNMPGTLHEPEGDNNYMEFIEVLTEALERVLLVRGGGSEVITIYSYPTLNARA
9500	23401	A	9569	549	415	RQENRLNPGGRGCSEPRSCCCIAAWATEGDCLKKINNNKPKNEQK
9501	23402	A	9570	546	1	KLECRGAITAHCSDLNLPGPGDPPTSATQAGTTGTC
9502	23403	A	9571	415	215	SRLRKKIYIYIYMCVCVYVYICVYICITYVCVYICVYICVYICVYMICHEFITFFSI
9503	23404	A	9572	374	138	IAASAATQELFKRISEQFTPFRKAFLHWYTGEGMDEMEMAEAEESNMNGLVSSEYQOYQDATAEEEGEEFEEEAEAEVA
9504	23405	A	9573	370	233	GSPPVRSVHQSGVSVLSGTQVDEGVRSGSKRMVAPPGRGRNITSLS
9505	23406	A	9574	3	399	YSSPGPIALALRDPCAHGGPSNSSLSPAQGHPARAQQGPQPPQQGPPSHLGSDLRPHVAHTRGALHGPPAPAPASPAPGGSGSGVAASMCSAPRPGRAGGTIGSVLTAHHPASAGCAHRDAYVCKAPGRAVF
9506	23407	A	9575	314	48	SILPHSDPERCFSIQPEEGTIHTAAPLDREARAWHNLTIVLATELDSSAQASRVQVAIQTLDENDNAPQLAEPYDTFCVCDSAAPGQVSN
9507	23408	A	9576	505	264	IFVVEMEFHHFGQAGLRLLTSGDMPASAQSAGVTDMSHCTRTPDFNFKELPGAVVTFLLCGMQVGRDELEDDWMGAWS
9508	23409	A	9577	508	314	PATWKGCLSNFSSYLTKEPADFIEHQVLSWEQVPDGFFIFNERFKSFTVVVLNNVAEFVCKYKLL
9509	23410	A	9578	512	1	RMREAITFSPGRLPRGAAPLRGPGAGTLVPWMPTPGECWLSLSVSAAGEKPYKCSVCESAFNRKDKLKRHMLIHEPKKYKCPFSTHTGCSKEFNRPDKLKAHILSHSGMKLHKCALCSKSFSRRAHIAEHQRAHTGNYKFR

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						CAGCAKGFSRHKYLKDHRCLGPQKDKDPV
9510	23411	A	9579	3	487	WDLIYVGRKRMQVEHPEKAVPRVRNLVE ADYSYWTLAYVISLQGARKLLAAEPLSK MLPVDEFLPVMFDKHPVSEYKAHFSLRN LHAFSVEPLLIIYPTHYTGDDGYVSDTET SVVWNNEHVKTDWDRAKSQKMREQQALS REAKNSDVLQSPLDASAARDEL
9511	23412	A	9580	1	840	SKYLYDEGEEEEVFNFDEWGAAAGGVAVPT LNALERGFLSAMDWHLTYTDPREIFEVLS WLESCVAEEQQGRWRGWYTYTDLCVLLEQ PTWQLALGSLCQRLVKLSCLLAVALVYSS VALAVASAVIHQSLGLSCTPTPGPPDL GLTSRCLLEPCIPSVPQCLPSLANVSSC LEGSMGLRSLWGSLLASLTPPLPPPDP PAPPPTLLHNCHLCQKLQRDSPCTCHAELH PNRTVPTALSSPWYHTYGLAPPWPWSPV PLSLPQPQQCSLFSVMEALARLKSFVFVFPG
9512	23413	A	9581	2	158	IHAGFISVSVDNIIYICMCVCVCVCVCAHMACACISEHITHAPRLPEVFYTP
9513	23414	A	9582	3	144	YTAGVISVSVDNIIYICMCVCVCVCVCAHMSACFSEHITHAPMLP
9514	23415	A	9583	503	3	GKCVCLSAVGWSLLSAFRGSLSVCCLGQ FVCLSAVRGFSFVCCPGQRVCLSAVRGS VSVCLSAVQGNVSVCCLSARVGSLFVCLL SGAVCLSFCLLSGAVCHLCRAPTPCLSR SLAHRRCNVCEMTQLISVSYFFCWGW WRHRNNIHQLQKCRRLRILMAYTGQGPP
9515	23416	A	9584	2	1358	AGLDSLHKFQVKIEKEKVYVRASKQALQLQRRTKVMACKCISPSAGYSSSTNVLIVGAETLRQEGFSDRIVLCTLDRLHSYDRPKLSKSLLDTQPEQLALRPKEFFRAYGIEVLTAAQVVTVDRTKVVFQDGFKLEYSKLLLAPGSSPKTLSCKGKEVENVFTIRTPE DANRVRVRLARGRNVVVVGAGFLGMEVAAYLTEKAHSVSVVELEETPFRRFLGERVG RALMKMFENNVRKFYMOTEVSELRGQEGKLKEVVLKSSKKVVRADVCVVGIGAVPATGFLRQSGIGLDSRGFIPVNKMMQTNVPGVFAAGDAVTFLAWRNNRKVNIPHQMAHAQGRVAAQNMILAQEAEMLSTVPYLWTAMFGKSLRYAGYGEFGFDDVIITQGDLEELKFVAFYTKGDEVIAVASMNYDPIVSKVAEVLASGRAIRKREVELFVLHSKTGDMWSLTKGKS
9516	23417	A	9585	360	239	QCRAKGLGKLVSFGGLGIWSSLIDVLLIGVGYVGPVHGSSYV
9517	23418	A	9586	160	1156	MPLRLTFAPKGWPHPPTSLSHPGQVTDQTTWWLFQELPTPSSENSMPPGLSTPTASQEGAGPVDPDSQPTRRQIIRLSSPERQRQLSSLNLTPDPMEPPPCKPRSCSALARHALESFVGWGLPVQSPQALVAMEKEEKESPFSSEEEEDVPLDSDVQEALQTFAKTSGTMNNYPTWRRTILLRRAKEEEMKRFCKAQTTIQRRLNEIEAALRELEAEGVKLELALRRQSSSPEQQKKLWVGQLLQLVDDKKNSLVAEEAELMITVQELNLEEKQWQLDQELRGYNMREENLKTAAADRQAEDQVLRLKVLVDLVNQ

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						RDALIRFQEERRLSELALGTGAQG
9518	23419	A	9587	419	130	RRDPHLPRIMGRTRRLNRKNAETRINAQL PLTDKGMRARHVLDNSGEWSVTKRQVIL LHTELERSLEYLPLRCGVLTGLAAIASL LYMLTHYLLPYA
9519	23420	A	9588	2	399	FSCEFNMEANQCPLVVEPSYPDLVINVG EVTLGEENRKKLQKIQRDQEKEVRMRAA CALLNSSGGVIRMAKKVEHPVEMGLDLE QSLRELIQSSDLQAFFETKQQGRCFYIF VKWSSSGPFPEDRSVKPRHV
9520	23421	A	9589	19	205	LYCLVEWHDLCQLQPLSPGFQFSCLNLL LSSWDYRHMPPTIKLSSYSSIKLIYY LFMLVL
9521	23422	A	9590	500	407	KLTNEVRSVKRSQSQLFPESFMCKEKLGNNTII
9522	23423	A	9591	727	236	RRSRGLEGREALALCPGDGHLLCRRRTD SSFSFMAFFFTFMAQLVISIIIQAVGIPG WGVCWIATISFFGTNIGSAVVMLIPTV MFTVMAVFSFI ALSMVHKFYRGSGGSFS KAQQEWTGAWKNPHVQQAAQNAAMGAA QGAMNQPQTQYSATPNYTYSNEM
9523	23424	A	9592	381	278	HPSVYKVASGLKEGLSLFGILNRCHCKW GEKLLR
9524	23425	A	9593	412	156	SQRCLSLGCHEH LANAYATIIICDNGFSA LLGPPLPGWYDIAQKYDFSFYICGLLY MIGILFLLIQPCIRIIEQSRRKYMGAHV
9525	23426	A	9594	263	50	KHAAPPASLSLSLLLHHGQKRA CPF FAF CRDCQLLEGSPAML PVQPAKLLVLEQV CLLCALLIPPSGSRI
9526	23427	A	9595	432	309	GTFSERGPPLEPRSQTVTDFCQEMTDK CTTDEQPRKDYT
9527	23428	A	9596	457	29	TLLPGWITAQASEGEIGASLPSSLPPPL YLPSWRCSPSGAL THPAACPTGQRSSA LLPSLPQAPPFGCGMTGLRPLPSPSVC CSAPSPQLLCPTQLPPAPE SSEGGCSSES RCVANVKYTRDLGDFLEKCTNGEASALE YP
9528	23429	A	9597	864	407	PSRRLSPTGRTHGSSAACAPPPLER RSRTSRPWPWGPHSASARTQRACTTWYS RSWACSCSWITSRPSWMTTKRTCMIFST IPTTPRTALWRGLSLWKDAWLTRLKLA PSSPTSMPPTTCTACSSTWMTCGSPAR WASTPMPRSSTT
9529	23430	A	9598	421	145	LTOHNGDAAASLTVAEQYVS AF SKLAKD PNTILLPSNP GDPVTSMVAQAMGVY GALT KAPVPGTPDSSL SGSSRDVQGTDASLDE ELD RVKMS
9530	23431	A	9599	1013	604	PGRPTRPDICL LLERMEEQVKNV MKTFR EELYNIKEFEVERQELL ASNKKKWEQA LQAHNAKELEYLNNRMKKVEDYEKQLNR QRWDCEEYNMIKIKLEQDVQILEQQQLQ QRKAIYQLNQE KLEYNLAGAEER
9531	23432	A	9600	409	191	HHVGQAGLELMTSSDLP SLASQGAGITG VSHCARTVYGLSIVFFSSH RGFA SVRTP PSNENFPDRPISIAHP
9532	23433	A	9601	367	1	PPRYSPPLG VVRGGVPPGP GV LAPPFPK GKPPFFFKNPNLPRPGG GAPYSPFFGGV

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						GRGISFNPGQQGSPGQKKPPGPPRRGTK GFFSKKKKESTKLPTSHHTHCWFELPE ALDLELDPLY
9533	23434	A	9602	1722	394	GWNGSWNDNLVDTPLKRDPLQDICRRY MEDLKKICFYRELNSTTLLKFVHTSFHG VGHDYVQLAFKVFGFKPIPVPVPEQKDPD PDFSTVKCPNPPEEGESVLELSRLAEEK NARVVLATDPDADRLAAEALQENGCKWV FTGNELAALFGWWMFDCWKKNKSRNADV KNVYMLATTVSSKILKAIALKEGFHFEE TLPGFKWIGSRIIDLLENGKEVLFAFEE SIGFLCGTSVLDKDGVSAAVVAEMA LETMNITLKQQLVKVYEKYGYHISKTSY FLCYEPPTIKSIFERLRNFDSPEKEYPKF CGTFAILHVDRDVTGTYDSSQPNKKSVLP VSKNSQMIFTFQONGCVATLRTSGTEPK IKYYAEMCASPDQSDTALLEEELKKLID ALIENFLQPSKNGTGSGRSCLGVPPNTV MTLCGAYGNRATRRNCNCHTLEPCG
9534	23435	A	9603	14	356	DFVERTQYHTQTHHTHSHAVRLSPRP VQSRPPEASQTGPTRTKPALGAHPSPRG APCPDDPGSLSRMLGYGSRASHNSRRGRW GHGRCKDQRAMGPHSHMWAAALPPGALS SP
9535	23436	A	9604	477	264	LVEETGFLCVGQAGLELLTSGDPPTSASQ SAGITGVSHRTWAALSTFTVLCNCYHYLF LEVFHHPKLKLSPH
9536	23437	A	9605	1	378	EGINFSDSLRLRCVVMMGMPFPNTIRSAEL QEKMAYLDQTLPRAPGQAPPGKALVENL CMKAVNQSIGRAIRHQKDFAVISVLLDQR YARPPVLAKLPAWIRARVEVKATFGPAI AAVQKFHREKSASS
9537	23438	A	9606	417	254	MVSLTQELCPVAMRVAEGHNKMLSNAEA RVTVPRNFIRGALLEQAGQDIONKLE
9538	23439	A	9607	404	272	PPPKFLLESQPIRVVDWWSLGALMYDMLT GAVGAQLKAACIIGLC
9539	23440	A	9608	409	205	HMNGSLGSGDIDGLPKNSLNNNISGINSNP PGT普PDDGELGGNFLHSFQNDNYSPPSSL PCWSLFLYFSLPP
9540	23441	A	9609	449	263	VWICPCDPPASASQSAGITGLSHHLPKC WDYRLEPPRPAHCFCFYSFTMRNRNLLS LVKYSR
9541	23442	A	9610	366	75	TPGLKRSSCLSLSMSRWGYRIEKKRTIIR SVVEAIKEQDGREVDWEYFYGLLFTSEN LNLVHIVCHKKTTKLTCDSSSIYYPQT RLKRKQPVRKRQ
9542	23443	A	9611	1	801	PGYCGSWVFTCGALRQLSGGRDLRSGAR MGNSALRAHVETAQKTTGTVFQLKDRLGLTE FPADLQKLTSNLRTIDLSNNKIESLPL LIGKFTLLKSLSLNNNNKLTLPDEICNL KKLETLSNNNNHLRELPLSTFGQLSALKT LSLSGNQLGALPPQLCSLRHLDVMDLSK NQIRSIPDSVGELOVIELNLNQNQISQI SVKISCCPRLKILRLEENCLELSMPLPOS IILSDSQICLALAVEGNLFEIKKLRELEGY DKYMERFTATKKKFA
9543	23444	A	9612	179	329	KGLAFCPPPPGRGGGPPPPWLWPPPPSYKK IIFGLKTPKGALSPPPPPGNF

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9544	23445	A	9613	410	298	PRFTPFSCLSLRSSWDYRCPPPRPANFL SLSSVLHGT
9545	23446	A	9614	1	130	NPGSHCVAQAGLQLLSSGNPSASASQSA RITGVSHCAWPNTTI
9546	23447	A	9615	1	146	NTWRLHMVPRLVSNFWAPGILLSWPPKIL LGLQKRATTMPGPEIYTSIN
9547	23448	A	9616	552	26	RLSIRNLLTHAFFAEDTGLRVELAEEEDD CSNSSLAIRLWVEDPKKLKGKRKDNEAI EFSFNLETDTPEEVAYEMVKSGFFFHESD CKAVAKSIRDRTVTPIKKTREKKPAGCLK ERRDSQCKSMGNVFPQPQNTALPLAPAQ QTGAECREATEVDQHVRQQLIQREPQQHC SSVTGDL
9548	23449	A	9617	420	48	FSQILRASYEFDSPFWDDISESAKDFIR HLLERDPQKRFCTCQQALRHLWISGDTAF DRDILGSVSEQIRKNFARTHWKRAFNAT SFLRHIRKLGQIPEGESEGASEQGMARHSH SGLRAGQPPKW
9549	23450	A	9618	190	285	RQGLTMLPWLVSNSPWPQVLLPWPLKVL GLOV
9550	23451	A	9619	392	308	SPIKPикиLSAPRKNTNSV рука KFRFG
9551	23452	A	9620	166	23	FCNPIPSSLPSLPSFISPFPLPCFLTPF LPCFLPPFLPFLSFMTLTF
9552	23453	A	9621	49	374	DRRGIRIMAAALFVPLGFSSLGTHGPSG AAGTVTTA*YLGSKILLTCSLNDSATQ VTGHRWLKGKVVLKEDS\LPGRKPEFNV GPHPPNGDKSSFVFPFFSPCPRLTF
9553	23454	A	9622	85	472	SHVFPPLRLTLHSMAVPETRPNHTIV INNLNDKIKKDELKKSLYAIFSQFGHNL DILVSRILNMMGQAFVIFKEVSSATNSL RSMQGFPLYDKPMRIQYAKTYSYIIAKN KGTFLSC\DRKLICK*TPQ
9554	23455	A	9623	170	2	IFFFFCFERGSCSVA*AGVQWRSYSLL* S*TPG\SSNTASATSVAGTTGL\HHHAE
9555	23456	A	9624	2	469	RRLCSDRGLQRSLGMSAAVTACKLARA PADPGKAGVPGVAAPGAPAAAPPKEIP EVLEDPRSRRRYVRGRFLGKGFFAKCFE ILDADTKEEFAGKIVPKSLLLKPYHR*K MFMEIFIHRSILGHQHVLFHGYF*EHDF MSEELEL\CRPRSLFL
9556	23457	A	9625	661	1393	ASPPPSQTTPAAGPGCSAGEVSLA\GLCL QERRLVDVAGFSIFIPSPRYLDHPQPSKA EQDASIPPGTHEALLQTAISPPPPPTRP VSPPKAKEAPNTQAOQPISDDEAS/RWG RNPG*CS*SGSPHQWPLPHLP*GRL*A* PSPCCPG*VG/PVHSPQARRPITTIS QRSWKFWPKPTVFRETSGGPWAMPRPSM PSRASISLSPRTRSRSRKQPRPLTLGCCVW HVVHTDGERATCGDVRRRAHS PR
9557	23458	A	9626	1	286	PTMAKLIALTLMGMEALFWNHQASYQT RLNALREVQPA*LPNCNLVKGF*TGSED F\EILPNGLTFISSLGLENPWI*RLDP\N SPGKMLLMDI\N
9558	23459	A	9627	173	491	EGPLPLESSSNWGQADLDKKSRELLWKT VYLL*LNQLLPYNPVNPILGINPREHT C\HQEMCTRIFIATLFTKAKA*K*PRCP *AREW/IK*/IWNIIHIEHY
9559	23460	A	9628	351	1	VLGDAIQSRRGSSRKAGSYLLSRSP/CS

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						EGGRGGCWAQNLTGTMSSVASGHGANVPR ELTS*AWPEPGPAGQREGRPPPTCPPT CAHGPPAQ*PRGKAAYPG/CLGLQWPD *SAFNP
9560	23461	A	9629	599	11	KMWR**H*AKSQIRNAIPFTIAHK/RDL KSLKIQLTKEAKDIYNENYKIPL/NEIR DVTNKWKNI\CS*IGYLYSTYKYKCIC LVNLYL
9561	23462	A	9630	226	1	KCDNLGYSTFFFFFFFPFFFFEIGSYFVA QVGV*WHNYNSNS/DASAFQVAGTTGVCH HAQLIFNLFVEVGSHYVAQA
9562	23463	A	9631	241	1	VSGCPLPRG*RPPPQPQSPPPSTPGTSD HPCTPCR/PALRR*SP**LPCLDLPPAS GPPSTSGNSTGTMQPT*PKLNSSSS
9563	23464	A	9632	201	1027	MTLTPAPGQGQSSQCLWRRPL/PLPPG PDSEEPGSGAAAG/PGSSL*SPDLPPAAP PKP*TSS*EMNTVGSTQEGLAQRITQ HCPVPPST/RVDILGTCLQPFPALCLTS APWLVRMPPSQRSSREIP*RLEAF/SLR TPIPAHSAQPSHQEKEP/PSPR*DHDG* PPP*PPKPTHQTLAGQAPRSQGLARPT LPYPPSPLRVTPR1CRVHV*GHLRRPRG PPPSARRPTWDWRVGLPWEDLEVVLCR GPAWLLARTSAPFSSLPTHACTGKTTM PF
9564	23465	A	9633	103	379	YHCITIIVLKCICFFFFFLKPCLILSPRL EARGIILGH*NLCLT\SQLRRLIRKSP LTLEGGVCSDPRSPPHCSPAWPTKGNNFFS KGKKKILD
9565	23466	A	9634	155	405	VPAFRSVTNISISVSFFFFETEPGFVTQ AEMQGLDIGNGQPPCPKLSSFA*ASQVM GTTGPRH/HC*ALIFLVKTGFPHVAKTF F
9566	23467	A	9635	4	423	GAMRGDRCRGRGGGRFGSRGGPRGRFRPF VPHIPLDFYLCEMAFPRKVPAPDETSFS EALLNRNQDLDPNSGEQASJLSLVTKMT YEIDNLTVAPGTLDVLIIEERQQGGPYIK GTMTT*RH/SVADLTVILQILTTWESVA S
9567	23468	A	9637	2	492	GSRAIGFGLAHILERHLIKWILASIVR* DLA*LMNWSG\SHKDLAGKYRPILEKAI QLSGSEQLQAFKAFEEESMVNENENVSLVIS RQMLTDFTLHPNLPDSTVKEIYHTLE KIQPIVISFEEQVASIRQHFASIYEKEE DWRNAAQVVLVG1PL*TGQKQYNVDYKLE TYLK1ARLYLEDDDPVPAY
9568	23469	A	9638	1	417	VVQGLGLVMGSPSRRLQTKPVITCFKSV LLIYTFLF1FWITGVILLADGIWGKVSLLEN YFSLLKDKATIVPFI\LIASGSATIILFG ILLC1FSV*HYPV*LLLVTFLJ*LLVFL NKKWISPHFLILTFNYLLFDIIIDNSS
9569	23470	A	9639	125	451	IYRKPLKSIRRVCGGLHLNKK1FFFFFLKQI WGWARGLMPC*HFGRLLKKGDCLTLGIGD /SRG/RYDHDPALQPRQSKTSLKINK IGWAQWLMMPG1PAFWEG+AGRSFGAGI
9570	23471	A	9640	670	927	GHVLLPRAAGCAQPGTGPARAAPAAVQR LPGGGVQPSGPGRAGQGQGLRGT*AGG NPGTGF/GGPHASALLPPSEAPGSLLPS

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						QPR
9571	23472	A	9641	115	460	ISWIFLICVGFFGGGGARVPLCHLSP RLECSSAIRARCGDFPGSSDP*ASAS* VAGTT/G/SCHHVQLIF
9572	23473	A	9642	1	431	AMRAEVLVYCCR GALASGCVQAFRARY\ WVLIIVDVPDNEQANASIIVKLTDSFTE QADQLTAEVGKLLGE*KVDAILCVAGGW AWGNAKFKSLFKNC DLMRKQS IWTWTIF SHLATMHLKEGGLLTLAVAMA VLDGTPGMIGD
9573	23474	A	9643	154	408	IIMNAQSVEEDSILIIPTPDEEEKILRV KL*EDSDGKYGSKIPWNHLPEPENFRLL FKHVGYLD*SGLY\EILTGF*ILCVLCY
9574	23475	A	9644	3	403	YSQFFGGPKLEDPIRPGVFSQPGEHRGH PFQIF*KVGLGNGARP G FPVLGKVCKD NLKLGGQGCSR VEMHPRTSAWAIERDPV LKKKRQR\EHQCSNEQKHTN
9575	23476	A	9646	3	399	ARAMVLSPADKTNGKA A WGKVGA HAGEY GAEALERMFCLFLTTKTYFPHFDLSHG S AQVKGHGKKGADSLTNAVAH VDDMPSAL VALSDLHAHKLEVGPVNCKLLRH*LLVT LGG\HFPawlTPGGIAFLEKF
9576	23477	A	9647	22	407	APSAGWMCHFTEDKATITSLWGKV\NV EDAGGETLGRLLVVYPWTQRFSDSFGNL SCASA IMGIPKVKAHGKKALTSLGDAI* HLDL*GTFAQLSELHCDKLHVDPENFK LLGNVLT VLA IF HGKE
9577	23478	A	9648	243	2	QIATTTLPGPSEG VGKRD LGSSSRHHSQ VESVKH\PRDLAQDA*GHGSAPRPLC PPAQSWHCLRGPCLA PHPTLCEPSR
9578	23479	A	9649	283	196	SYFI*IITTHSLI\ISIIPLLFFNQIN NNLFSCSPTFSSDPLTTPLLTT*LLP LTIMASQRHLSSEPLSRKKLYLSILISL QISLIITFTATEL IIFYIFETT LIPTL AIITR*GKPTPLIQ
9579	23480	A	9650	10	354	QLRVITRLTVVNN*TSA*SRGVSY P*AH \SSDALHL*REL TEQRFIVSVNCAIAHC RHQSASEDHV KLRNEVTEFAQTWDAD E AENC DKS LHTLFGDKICTVATLRETYGE MAD
9580	23481	A	9651	2	404	AFGTTKWVTVYISVFLCSSAYSRGV LRL DAHKSEAAH RFKDLGEENFK ALALIAFA QYLQQCPF\EDHV DLVNEVTEFAKTCVA DESAENW DKI\LHTLFGY*LCAVACFRE T\YGETAAC*AKHEPVEDE\ CFLR
9581	23482	A	9652	83	396	NIPGVGGGGVPIPLVWKYNISHTQR*RE PYIQSLRSGNW SERMSHMVAR*RQRHHP YYT\LLQ AQLSMA\SDPANVMMDSVITA GVLVA/SRRARRISK LGHRI
9582	23483	A	9653	67	954	REGNHNT ERNCRPPQDTGPTQ/RPGPP PPEVPWQDASSA PT PAA PVGKLLPS*G PPGSASCQGR*TLGSVH WL*GSPLPS PS AGGR ALP YGPQA GQSQGH WENT GRGTPL PG SRET*GHE LTTGVEHQ RHKAPREPQA GQPRLC PWPVQSLPPT\ARSPSW SQGERP
9583	23484	A	9654	1	252	RPPQLLASDLSLPPSRPPSFPSLLL SLR PPLSRS LCLSHYLCPLSLI QQQLTSFPD

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						TFSPPKSTTSGGPPQPEDSPSS*PPTPSP P\PSLSSLPLPSLSSAPPF/YVHSVSP TISAPLYP*YNS*PHFPIPFPPRKVQHL ARPSPKTARPPWTIRRI
9584	23485	A	9655	1	394	SLRIYCFVIEVICFLYLL/FIMYSIS*G I\LMNFTILCIGY*LLQYFFFVVVKSF YFNFIRIPFILFLYLCILLVF*LIFFDL SYF/MCLRLIIFNLFY*LFLLYSICLWN MVLLLISKLF\*F*FCGRFALIQ
9585	23486	A	9656	122	371	SPYLLLQGGVSWIVWLLNVESTNSSL FPETGSHECAVQGGVQWCGRGSLQS*TPG /SQS*VAGITGMCHHAS*LEKFFFVEMG
9586	23487	A	9657	425	3	KTSMMNSIVPHISIPTLNVNGLNVPLKR YRIAЕ*IKIHQPSICCLQETHPTHKDSH KLKVKGWE*IFHANG\QGVAILISDK/T DFKATTVK/RDKEGHYIIIKGLVQQENV TVLNLCPNTGALKFIK\QLLDDRNEI NANT
9587	23488	A	9658	179	373	VHSWLLWGSQSFSVLFRPLTD*MRLTH/I MKGNLLESKSTSLSVNLIQKHPHRNION V/AQNIWWSWNS
9588	23489	A	9659	103	373	LKHVLRLCLQSERKLHYLFNIDQWGKFY TWDDLYECISSKFTTHFFSFL/FFSF* SQGLALSPLRDCSDAIIAHCILEFLGSS HAPTSAS
9589	23490	A	9660	216	424	TDINVTTKTIKPLDENIGITLYDLGLGS GFLDMT*T/AQVANEKIG*WDFIRNLKL TCIGHYHEVKKTNPW
9590	23491	A	9661	276	2	PRIGKLPNTNMIEPLTIKEMLINLAMRFH LSPVRMAI/IKIKKSNCRW*GCREKGIV IYHYWWCKLVQPL/WKSSLK/FIK*LP IDLSPVPAIPLL
9591	23492	A	9662	239	356	ICIKRRK/WSGTVAHTCNPSSLGGQGGR IA*VQEFPQPGQQ
9592	23493	A	9663	1	340	RHELMTPHAFGAMKRVTFISLLFLFNIA YSRGVISRDAHRS EDAHPIKDLV*ETFK ALVMIAFAQHQLQQRPFEDHV*LLNE\VT EFAKTCVAEEAESACDKSLHTLFGDK*C TV
9593	23494	A	9664	759	1039	KRIPFGRPRRVDHLSGVRDQPGHLDET PS\LKIQKLAGQGGICL*SQLRRRL*E NHLPNGSRGCSEPRSCCHCTPAWATE*DS ISKKKNTKIS
9594	23495	A	9665	1	355	ITDLYSMFHFG*VDLATITSLGKGNEO KAGR*TLERLLDVYPWTHRFDFSGNLT SASAIGMNPIVKAHGKKVLTSLGDAIMH LDD/LKGTFQAQLSELHCDTLHVDOPENFH ENPCDGS
9595	23496	A	9666	364	3	APNIPPSVTRIPALLAFRSQCLCGSCP PLATEPVGLLSMSFQAAPCFTWWVTEA WLTGISWPPDFLISLLCI/HINYNAVIF RKYRPRVGAVALICNPSTLGG*GGWIA* AQEFETSLGN
9596	23497	A	9667	1	357	PISNAMRHLGQEETATITSLGKVNVED AG*ETLGRLLVIYPWTHRLFDSFGNLSS ASAIGNP*V\KAHVKKALTSLGDAIKH LDDLKGTFQAQLIELHCDKLFVDPENFKL LGNVLAT

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9597	23498	A	9668	24	369	APRPDTAMGHFTEEDKATITSLWGKGNVE DAGGETLARLLGVYPWTQRLFDGFGNLS SASAIMGNPKVKAHGKKVLTSLGDAI*H LDDLKGTFQAQ\LSLH*DQLHVDPENFK LLGK
9598	23499	A	9669	12	365	LLIMDGERK*FLETDSAPCEDAMNTVEM TTKNLE*SINLVDKAVA/SGFERIGFNF EKSSTLGKMPNSIACCREIFHERKS/S MWQTSFLSYFKLROA/PPAATTLNDHQ PSALRQDPSP
9599	23500	A	9670	346	2	YPYDPWSSLINNMFFLFKRFQNFFLKEGT LTFPFKGFRGDSLFFFWWPYKLFNLKSF L/CKFLEI*RYFFG*IIFFFPFFFFFL RQSLTLSRPLECNGTISAHCNLCLPD*S NSP
9600	23501	A	9671	121	364	HKKKTAGRVQWPPLLVIPALWEAKEADCL SSGVQGQPGHQHSKTPSLP*PSKSWDYRC TPPHLASFCNFSSFFFGRDGVLCCPGW P*TPELKQSA/CLGLPKCWDY/RARATA PGLLFF\FMLKYVVLVKPAVNIANAN*KE LSEPDVKNEICFV
9601	23502	A	9672	437	223	EME/FSLLLPGLECNGTCLAH*NLRLLG SSDFPASASPAGITGVRLHAQLELYFL NLLGGFFIISLWVYLS
9602	23503	A	9673	100	338	KSRPSAVANLTPVIPALWEAEAGGSPEL KQFSLSSLSSRDRHFATPC/RG*FFIFF VEMEFHCVAQCGFELLDSSSPPTSA
9603	23504	A	9674	161	1	SFLWKLCRGAPSCMRCOLA\LL*DVSQ LGY/SGVRDPLLEEAVCPFSDLKLRAGR
9604	23505	A	9675	304	1	VPPILASQLGDKRRIFFQKKKKKKNNKDK IHIIISIILKKFDKI*YSLIIK\TL*KL GME*TYLNIIKVIYDRPTASIILSGEKL KSFPLKSGR*QECPPL
9605	23506	A	9676	111	346	SKEGSKEGSLEIWGFVLVAFPPFPFPF SFFFF/*ROAGRPRLECRSMITAHCNLE LLGSSDPPASAS\QVAGTTGPTSP
9606	23507	A	9677	3	349	ARAGRIIKDLWLGFYYYYYFPKKTPL FTRDKGGGKLQTAKKNNPHPVKREKKKP PPGGTRGGKNPQGNPFWGFGPQRFFFGG KTFGGGAHPPDPTLG/PSPQS*KRPFKG RGPPP
9607	23508	A	9678	38	368	QASLLKESESERKSPTSLTLSQKLGMR LCEEGMSAKAAD*RLGLLH/QVSQLVNT KEKLFKEIKAISVNTLMIRK/RNSLTA DMDKVVVAWIEDLSSQNNPLSQSLIHSK A
9608	23509	A	9679	187	345	PFILFFETESEYSVA*AEMQWCIDLGLSLQT PPPG\SSNPPVPSALWEARAGGSRSQ
9609	23510	A	9680	192	468	ERTSLFTIHLLKLTTITNSAAMSNNHV*V FV*T*IPLSLGQMPKSVTAGSNGQSLFR FFKV\NCQTLFHGGCAMLH/SHTQLNAIP LFRNLWQHLS
9610	23511	A	9681	141	367	GSWAASPCSCMDDFAKESFTVVDYVLL ENCPNMGDYVVAQPFMTDNYVRTQLNW DGVGTO*KDYI/SSERLN
9611	23512	A	9682	193	3	IIFGERR*ILKLYKLTGHVGLRL*SQILR RI/RLNLLGGGGCSEPRSCCHCTPVWATER DSISEKKEK

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9612	23513	A	9683	1900	1988	NLVHFEEHFPSLFTPSPSLCHIF/CSRD RVSPY*PGWSRSPDL/RYLP/CLDLPKC WDYRRESPCPASSRFLMNFLYF*NTTLW Q*KTIPLLLF*SGDC/S*FFF*YNFLAHTS STMVNNSGIRNSRNPVFKLADKAPSHSPL SILAFGVVEFF/NLGSLOPQPLKLK*ASH LNCLSSWDNRHAPPCPDNFFFNIL*RWG FPILSRMVLSW/PLCSLSTSASQSSG/ ITGVSHCAGPILVF
9613	23514	A	9684	69	358	ILIVKVFFPHTQKPNFVLRLSLQSIIQQM LLPERKWTHAQKTCVSSENTERCHEKQV ITSHWLGVMVAHSCNPSTLGGGGWIT*G QVFET/SLANTVKP
9614	23515	A	9685	66	344	IGEKLLLTDKHNRNVLETE*APGKDGVN IDEMT/TR/DLEYYIN\TDKAVTGFERT DFNFKSSIRGQSL*YSII/CAKGSQQKQ QISLVPYFKKLPO
9615	23516	A	9686	269	1	PKIQNGHCKTLPKNPSQSDTKTFPLFTS GSSPQPHKLSFCFSAGPTLPSKTQLKIHL\WQGTVPHAYNPSTLGSRGGRIT*GQE FKTIQ
9616	23517	A	9687	229	361	DRYYYKSHFKPGAEAHAC*LVLASFFMC YRAIMINK*HLYHRKL/VYQVIRH*KYR D/I*THVTLTTL*DRYYYKSHFKPGAE AHACNPNSNLGG*GG*II*GQEFTKSLAN MA
9617	23518	A	9688	318	46	KLYALNDMASNTCKEYDNLIQYYRYKITY KRLIQHD*VEFIPEME/NWFNI*/RKSINVIHYIHSLSWEEKNYMIISLDVADVSDK IKLTLFLIF
9618	23519	A	9689	168	3	GNSNTMIFTIILYLFYFF/LFFIFDM KSHSVARLECSCGVILAHCNV*LPGSSNS P
9619	23520	A	9690	192	3	WHKASLSNPQPAGCMQPRMALHEAQHTF VNFKLTLWAG\PVAHAYNPNTLRGRGGR IT*GQEKF
9620	23521	A	9691	388	1	CRSAGVCWRSTPDVCLGITSSGCRTAE IVACSF LWKLHSRGAPARCQPELSCMRC \R*TLL*GVSQSGGTGVRDPLKEAVCPL AELENGARRSTALFRASRQDSLSLLKLR PQLPILLPGALSQIEGI
9621	23522	A	9692	226	3	WFLLPQVKLAIMTPRLYFPNLPFFFFF* DRV/CTVAQAGVQWRDLSSLSSLLLGSS SSPTSASRLTGTIIILQHHAE
9622	23523	A	9693	305	1	NHAITTVD*FGLIRHLVTKAIFNSGEVD IV/SIKDPLTIALNYTVYMFHHHDSTHGKF RGTVK
9623	23524	A	9694	320	1	PRDPASASQASAGITGISHQAWPDMILY IENPKDSSKNPLGLINKYSKVAGYKINT QKSA AFL*TNNYLNK*P/MRTIPFTIAT KKLYLETYLTMEVKDLYTENYKM
9624	23525	A	9695	263	1	VRILLFSESLALSPLRECGVISAHCTL CLPGSRGALSLLSRVDY/Y*VFLVKAGF RHV/GQAGLEFLSSGDPTVPSLPDFWDY RCKPR
9625	23526	A	9696	262	359	IRKIKHIIWSGVVAHTCNPSTLGGR*TKA HEGSLYCLRVGKIVVSNKVGTRS*FFRTQ K*V/HLFFS*VYHINGSH*SRTSL*IRK

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						IHKIWGVVAHTCNPSTLGGRVGWIT*GQ
9626	23527	A	9697	166	473	TQDTSQPWKNIWISFGSLKVFENVDIHKLYLELDNRHRWSMFTDILLFYF*DGSFTVT\RLECNAILAHCNLHLPGSSNSPASAS*VAEVGGTLEPRRRLRLQ
9627	23528	A	9698	456	59	LFLWKLHLRGAPGYVRCRLA\LLGGASQLGYSGVRDPLEAVCPFSDLKLHAGRTTTLFKAVRYGHLCLOQKFLLPFVRLCPAPTGGVFTVRQASMCDGLLIV*\VSERH*LPKPQQFWELVPKFVRPGLKSL
9628	23529	A	9699	4	375	VFCSSVTIVSETIAFLMWLSAQLLLVYRNASDFCMSSLYPETSLTKVTQGQAL/H*N G*LT**EQYWVKTQDAVI/CQQSTGSSGQSSQAREIKGPGAVAHTCNPSTLGGRG RWIT*GQEFETSLA
9629	23530	A	9700	239	361	RNDTFFFETESENVA\RLQCTGVTLAH*NLCLPGSSNSPA
9630	23531	A	9701	169	1	IFYWKAIFFETESEHSVAYAGVQ*SNLGS LQLPSS\GSSDSPISASQEAFTTDAAHH
9631	23532	A	9702	37	348	HAKNFDVSLLPYTKTTHEHFKVEDIWIANKHVKRCSATLVTKIEPPQS/TLKWLKH*PPC*QGNNGRTGSPIP/C/WWECKIVQLWKIV*PFPKKLSIYL/PY/DPPILLGI
9632	23533	A	9703	16	339	ARLNTFAMAACK*SERKS/RN/SLTLNHKLQMIKLIIEEGMLKAVNGQKLRLLYQ/T SQFANAKDELLMDIIISATPATV*MIG*QNSLIADLEKVRRV*LDDQ/TSHNIHLSH
9633	23534	A	9704	276	2	GISRGGLSKPPFF*DFPLDYLGQSPFC KVKRNS/RFRTTKSPLDFPIPPLFFFFEKVSQAISAHCKLHLPG*CHSPASASRVAGITGTRH
9634	23535	A	9705	352	2	CNSRSDFQQLMMNCFLRWAVSPRVECS/GVITAHCNLNLPDSVDPPTSTS*VAGTTGHTP\HTWLIIIIIVAGIFLFLFFLFSFFGRDGVSPCCPSWSQTSEFRQSACLSL PKCWDY
9635	23536	A	9706	6	351	IWNSRPRRPLGGQQGGRIQDWPKLHGKTRSL/LKKLQKLARRGRASLWSQVLKRLRLTWVDCLSLGG*GCSQP*SH/IHCSPAW
9636	23537	A	9707	76	359	CFLFVCLDFVIFLAYFCN*YLFPFLISHTFFFLLKKGLIFAPGVNLRDQNKFYFTLFDVFFNIYYC*IFFIF/CLVLLFFIFFFFYCFVMRFIVL
9637	23538	A	9708	342	3	GEELLMDEQSKWFL\TPGENATNIVDLTTKDLEYSISVVDKAAAGFERIGSN*N STLELKTVN/SVPHAR*IFCKRLQSVWQTSLLPILRN\LP*SPHPLVSAMLIQQSSTLK
9638	23539	A	9709	211	350	RQDIALLPRLE*SGTITTH/CDPQLSGSSEPPTSASLVAAGTTGACHYV
9639	23540	A	9710	253	3	VKCFSRHMLIIRRSAIGGKKHIEKGTLIMSFVVVYVSQSEH/NLCNHYAY\SHIKK VWLGTWADVNPSTLGGQGGRIT*GQEFE
9640	23541	A	9711	80	324	LITLTMASMCNSNERKSHTSLSNQKLEM SKPTEEGMLKAKTS*KLGLFHQT/SQLVTKKKKFLEEIKSTTPLNAPlMRK*NSL

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9641	23542	A	9712	246	3	QLAKHGLLFFLFEMGSH*LRLECSL\T ALLSKISAHCNLNLPGP\SDPPTSASQV AGTTGACLLAQLI\FKNFVVTGSHYVA
9642	23543	A	9713	2	359	AAASSTTIKEQDMLKFYFLFYFFETESH P VTQVGVQWCNLCSLQPPP\GPSDSPAW VTEQDSVSKE*KRKKLIKINVYLQVTTH P\HSPQHIVRVLSQLN*LNEKINRRVTK SSSKEKDR
9643	23544	A	9714	278	53	KLFRGLNNHRKFOTRCGGLFFFIFTYF* DGA/YALSLLECSGTIMAHHSLDILGSS HPPISASLAA\GVVRTCSPSC
9644	23545	A	9715	166	402	TLSLKKNENISRAWWHVPVVSGVWKAEA R\SLVPRSLRL\HCTPAWA
9645	23546	A	9716	168	1	VDCIIMRRSIAKSPRRKCRGTISARCKL RLSG\SGHSPASAS*EAGVTGVGDPR
9646	23547	A	9717	1	553	TSIRLFFLLSIFFFSRARNRILFKIYCN GVRAKGRGGGWGTCRGRNNTWPGPQL LLSWGRGMKRQDGWSWGRGEGDTGC1 PPPPGSTSRSRWPTRSPWPRLHLFSASG PPGSSSCSP*LPPLTDQSQVGRCSGPDPN PPYHLMKVQPLPALLLPLLKPHRFPSLG Q\PDPPPSSPPSP
9647	23548	A	9718	13	364	PPNR*RNPLIELTNHSLIYLPTPS\GIS A**NFGSLLGACLLQITTGFLAMHYS PIRLQLAFSSIAHI\TRDVNYG*IIRYLN ANGASIFFICFLHIGRGLYYGSFLYSQ T\NIGIILLLAT
9648	23549	A	9719	82	351	GEALEPELPMALSH/HAATLLAPLPTT PFVGTKVTIVGQAQW/HQAL*SQHFERP RRVVDYLHLFSRNGQNPPISTKNTRISAW WWRVPVIPA
9649	23550	A	9720	179	365	FSLFLASLKAQIIDSKPFFSNTLEN1*K YEVINFFLYI\IKLHFMNLTSLCFYCHS VCTILL
9650	23551	A	9721	2	320	PIPPGNESSPPTAQEDMQAANKH/IRRYS TSLAIRET/QL/KTTTREPYAPITMAT TETSAANTCWREYGESGSYCWVGCKTLR PLCKTVWQFLKPKSM*LAYDPAITLF
9651	23552	A	9722	1	344	PLPTQNWPQQSFLHYPVLLPAVSVLWS SFFFFFWKQILLPPRLEG/NGQNSG*W KFPLPGPSLFCSCPSFQTSGNYGPPQQAR AIFWKFKIKTGFHGVTREGILNFLTSGSA PLGS
9652	23553	A	9723	156	3	VTEAYFILFYFETESHSV*WHDLGSLKS PPPG\SSNSPASASQVAGTTGALH
9653	23554	A	9724	76	337	YLSITYLSTIYLAIYVSIIYLPYHPSISI YVSSISYSINHPLYYYFSTHLSSTHSSIIY LLSISIILSINYLLSISIISIYLSTI*LSI YDSSSIHLSIHLHLYIYLI*YLSIYLSTI YLAIYVSI\TIYLSIIHLSLSMYHFLFIL SIIYLCIIFLPIY/LSTHSSIYLLSISI LSINY/HTSIYLSIYLFWY/HLYIYHPT
9654	23555	A	9725	249	436	ELAG*IQDHP/GQHHKTLSLQQIKNLR RGGRHL*SELFRLRQEDHLPGVRCSE L\SHHSTP
9655	23556	A	9726	177	3	HLY**FSNLIFETESPV\RGIIISAH RNPLPGSSDSTSASRVAAGTTDT
9656	23557	A	9727	272	233	RKNQRIYQIARKRLNEMARISPLRSMII

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						LNVSGLNFPFLKRCRLAEWTEKKK\DPPI CCL/QKTHFTG/KDIYRLKIKGWKKIFH ANGSQ*Q
9657	23558	A	9728	368	380	RKGQRISEIAIAIKRLNPKMARIISPLISII LNVSGLNFPLKRYRRAEWTEKKK\DPPI CCL/QKTHFTG/KDIYRLKIKGWKKIFH TNGSQ**R
9658	23559	A	9729	294	2	KGNLSPKKKKNLKNFKVTPQNFGLKDQK TQGKPTLKVSNQNKPKFK*NLKGKRPL KLFPKKKKLNPNSRWFYEKKKK\INKLD GTLVRQINKKKRKNQ
9659	23560	A	9730	7	284	SQGLGRLRRENYL*FETESHHSVARTGVOWRNLSSLQSPPPG\SSNSPASASQVPVIT
9660	23561	A	9731	1	322	RSLKKKKRREKKGKNQPGQHGKTLFLPK TPKI*KIKKIYPG/RGGTHLNSQLLRNL RKENHLNSGGKGCGNDPKLGHCIPAQMKT TPFFKKGGAKQNGKKLLQLIYGIK
9661	23562	A	9732	168	2	GFYRKSLSCLSVVICFKDFFFFEMVSR SVA*AGVQWHDLGSMRPPPG\SGDCPA
9662	23563	A	9733	43	317	LKLQPRDTHCIWLSTTSPFIYFFFETES CSVAQA*MQWHDLGSLQPPSPG\SGDSP ASASCTGMHHHTWLMKCINSFDVPMPL GLGLNSHI
9663	23564	A	9734	8	296	NVVSACSLNGLVKGRSLCILNQIL*MITLTTERFLKAERGQKLGLLHQTA/QVVN/AKEIFLNEVSATPVYEGIIRKLNSLIATMEKACVVWIEDQT
9664	23565	A	9735	3	300	TRPSNSPAALSKCSSRRKT/R/TCLTLNQKLEMIKLSEKGILKAERGQKLGLLHQTA/QVVN/AKEKFLKEVRSATPVYEGIIRKQNSLIANMEKA*VVWIEDQ
9665	23566	A	9736	352	1	PFFYLLNFPTFFKGPPPLIHFLESFLEN FGFGQGAFFKLQNFFAFLFSLLNGPFLEN PFYFKFPINC\KFLGQNTFYCPYLGFF*RSFFFFFFFETESRPVA\RLECSGAISAHCKLG
9666	23567	A	9737	130	3	KIFFFFFFFFFLRQSLSVAQAGVQWC/N* LGSLQPPPAGLKRFLV
9667	23568	A	9738	167	3	ISRSVFCFFFETESCSVTVQ*EQWRNIG SRRPQPP\GSSNYCASACRVARFTGLV
9668	23569	A	9739	140	419	INVKYLSRHFFKGNTIQSPNKHRAIREI QIS/*TDNNKWCW*GCGEVQYFIHCCMCE MVHSLWKIVW*LLTGL/HIELSDDPAIL LGGIPPEEMKT
9669	23570	A	9740	93	371	KLCNGYYQESKREPTERN*IFANHKTKG CISKTYKELQLNNKNS/NPTQKWAQDLD ISPTQMKQTAKNQVKRCSTSLVIREMQI YTKSIPLHIH
9670	23571	A	9741	1	288	GTRDHRLRSGVRDQ\PGQHGETRSLLKIQ N*GCGHGGSCLSQ\LTWRLRQVNCLS
9671	23572	A	9742	296	563	FIKHLNSYMLGGNLATKLSEICKLPFYI EK*IQAGYGGTCL*SQLLRLRHDNCLN LGGGGCSEPKI\HCCTPAWATDGGSVSK KKKSR
9672	23573	A	9743	32	400	DALVPHWSSYSPICLDLNVLGIVLFSDR VSLLVPRLCECSDAIMAQHSSDLPLRLR*S SHSLPRNWL MFVILVETGFCHVA*DGR

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						KLLGSSNPPALAFLK/C/WRNMRKSQ\*PLLGLLLSADHSD
9673	23574	A	9744	60	356	HSEVDSIIIIPILQGRKQISEVRPQRMCEREGGLFISETLLFLCPAPSCS/HFLTPAQ*SYF*KNVSWLGAVGDTCNPSTLGGRG GWI\RGQEIKTILANMV
9674	23575	A	9745	2	446	PMVNKHVKRCASASLVIRAEQIKTIMRSHCTPNS*M*KTDNTKSW/*GCGATGTPIH C/WMKYKMQVPLWKKAQQFL\KHIHLPYDPINLLLGS*EK*NHLC/YKKTYVRI\IAALF
9675	23576	A	9746	257	1	VWLRLSFPSFLPILSPSSQGDLVCCFLMVF*RDGVSLPIPAGVQWLDRSSL*P/PSPGSSSPPASAS*VAGTTGMHLHAEPYASC
9676	23577	A	9747	148	3	IJKLCEQFHK*TIHVNLHK/L/WPGMVAHAYNPSTLGGRGEWIT*GQEFDSC
9677	23578	A	9748	769	1	YPQLFKIAKKKKSNVPKSIIMVSQYGH *ENKKWVLNHKGATLQ/EGKGNFGDFTFKVTLKDKIAAVAKTRQERLPQELKLKFLLEAKILKQYNHPSNVKSIGVHTQRRPIYYIKELVPGGDFLSFQRKKNELKL\VKFSDLADSGWCISSSKKCIHRDLAVRNCL/VGENNVLIKISDFGMSRQEDGGVYSSSDLKQIPIKWTAPEALNYGRYHSESDARSFGILLWETFGLG\VCP*PGMTNQQPQEQQVERRYWMSVSWQC
9678	23579	A	9749	607	986	SFSSSSSPEFISYGC DLLPMRDPHVFITHPAFNLPLFLALGMFFSLFSPSPLFIYFLPPPPRPPC*HSPP\PPPPLTNSLFVFLPSTPGVPSSPPNTSPPHLPVPRPPPSPTTSTHLSSPPPPSPTH
9679	23580	A	9750	313	339	AR*GLSCSG*S*TPGFMQSSCLNLPKCWDYRC/RATVPSLCFVF
9680	23581	A	9751	213	453	NLAVNVDEINLFFFPLFLIVTLASKFCSSHLLVGR*FIQSCHYFLFFFIDTESRSVT\RAEMSATVLAHYNLCLPGSPDSSA
9681	23582	A	9752	368	3	PLSSPRPLPFPLDFPSYIFLISISSIRFLSPPCYFLCVFLSISWGFSLVSQDGSDLLSS*SAFLGLPKCWDYRL*PPHPAWRELSFFFS/SFFYLRL*GSLSPSLECSGMIGHCSLDILVSSARA
9682	23583	A	9753	2	335	ARAGFSGGDWNVGMQSTASGLSLFHCFITS*GELFIILYILLKCYITL*IN*LMFGSFYFRDLQHFRRLP/TSIVGKKRPGBTVAHYNPNLTLRGRRGGWITQGQEFETTLANMVK
9683	23584	A	9754	467	120	SQLFGRPRQTDHLKSGV*DQPG\QHCETPSPLKIQKLAGRGWV/CAPIGPRLLGRRP R*ENGLNSCGEVCSSEPRSRRHCTPAVRE RDCLKNQNKTSGVLFHSPHQCFLISNTSRNLL
9684	23585	A	9755	137	368	DGVYLWTHR PYCGLGSLNFGS VII VLP*VKAYGWMVLTSILGDAIQPLADPECSF\GQLRELRCMDLHVDPEDFRLLGK
9685	23586	A	9756	172	267	SKSGNKPN DYHLMNGSVRCIRTV*QLLKRLTTEPYGP AVAFLGVYAREMKAYVH MKTYSLQKMCT*IFI AALFGIVKKWK*A K*LSPDEWISK/M/WCIRTV EYYLTIRE

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9686	23587	A	9757	56	318	QFWGFSFFFFFCFIDTETCSVSQAGVQ WHNQSWLTA\ P*SDPPAS\ AS*VAETIG MCHHDQLIFFFKQALCPRGWSAMAQSQ LTSSS
9687	23588	A	9758	179	1	KDTDRVSRGNNTQDTLKPPPPG\SSDSPT SAS*VARIIGVHHNTWLIFCILVEMRFH PRA
9688	23589	A	9759	219	208	NFCNFQMPLYQKILFWVRVSLLSPRLEC SGTIITYCSL/RTPKLK*SS*LSLGVQG CSKL
9689	23590	A	9760	133	371	AMAYQLYRNTTLGNSLQESLDELIQ\LR NRVNFRGSLNTYRFCDNVRTFVLNDVEF REVTELI*VDVKVIVSL\DGKQTGF
9690	23591	A	9761	813	3	CGEGWAAGQDQGSRMGSCLPVPRAGRQL GSLFPQFVYCSSCGTQRSSQSQWHKTE RSLPGNNPAPODS/ASAPKYOTPGPVLG VQSPLNQQSCHTALSPEASSSAFFHTTP ATLLHQARTLSSLTQGSRPTTWPVLLKMP A*RPRESRH\GR*EWTKRSQARSQEAIN ARPRKALGLSDPAPSLHPGSLEDSPKF S LGAPKAPPPLPASSPTAQETQQSHISQQP TATGFLGARLCPSHQHICQRGGFPGVTP LLLGEWGVGEHSFPDVLV
9691	23592	A	9762	96	377	RYHTNMAAQIPESDQIKQTFHHVGQAG LELLTS\KFEFLGTYNKLTT*FLDCAK DFTTRERKSEETTLSEHCLPKYSTMT\H RISLT\FTDNHI
9692	23593	A	9763	164	399	TDEELLRLRDEQ/RKWFLKIESTAGADAV NIVEMTTGDLE*CINLVDKVAARLERTE TNFE/RCSTVRQ/MLSKSIAACTE
9693	23594	A	9764	225	25	KCKITMNST*IE/TVFKDYEHLYVCKL KNLEKTDKVLTIHNFLRLNQ*EPEVLTR AKMYKIYNDIE
9694	23595	A	9765	128	218	FFKDLPDCFPKWSHCFTLLLAVYEGFTF ST*LVIREMGIKTP\I*YHFSPNRMVIM KKSNINKCWQGRGESKALIHC**ECKTV *PLWKTWVQIILKKLIIG
9695	23596	A	9766	194	551	KNFFFLEMEF/SVLLPRLECNGVISAH RRLRPLSSYSPASSSQVAGDYRACTTTA G*IIFYF**RQGFHHVGQAGLELPTSGDP PASASQSAGITGVSHCPQLKKSILHETP KGLTGVT S
9696	23597	A	9767	238	3	SFLWKLCPRGAPACLRCLSA\LLGGVS* SGYMGVRDPLEAVCPFSELEHHAERTT ALFRAVPQGCLSLQKLSAACFCSC
9697	23598	A	9768	343	1	RGAHHSRGDCVRFTGFCAPIPVLNHPKP LFPPFFV*KSPIERSSSLGPPLKRSKNRF PFLR/VPRFFKHPEFFFKKIIFLFPPPFF FFFEMESHSLA\RLESHGAILAHCNLSL PGSC
9698	23599	A	9769	191	2	FRINH*TSH/LRGQKKKKKTNASKAIGRK OTIKIRA*LNETOPPESIQRINET*S*F SGKIKLI
9699	23600	A	9770	165	2	GKPPNCFYILNFKKKKQDVFVNRT/WLG VVAHACNASTLGSQGGWIT*AQECKTS
9700	23601	A	9771	97	912	VILSTGCSSGPGWQSVLHHSLTRCPF SFFLSSPTPEME/FSLLLTRLECNGEIS AHCNLLLLGSSNSPASASGVAGNTGI/C

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						GLHAC*AS*FLYFHSVETGFHHVGSGLG LELLTSDD\RPASASQGAGITGVTPRV* PLNSFSRHLGSLCFFKETRVLSCCPSWT* TPGLK*SSCLNS*E/C*GYRHTPAHPAQ DMVFIFITY/CPFFVFPLL/VYIPRFLF LRWSFTLIVQAGVQWRNL GSLQPPPG\H KQSETPSQI*INKY*LLN\LITFFFSIK
9701	23602	A	9772	3	363	HELRSSANEHVFA SFIGPTILGLPGVLL IILYPPPLLIRTSIYLI SN\RL\VTTQQ* LIKLT SKLMITIHNSIGRS*SLILGS LI IIIATTNLLGLLPYSFTP TTQLSINLAM AIPL*AGAV
9702	23603	A	9773	38	385	YLIIILD SPEKG LIGCLCN CMHSSLLDH LNLT*SS*MCL YANIHIYVAISCTYFI* F*SI/YIFI*YFHY SIAYVYIY/IYIY MYTHAHITHMC I
9703	23604	A	9774	13	1350	DRV SLLL RLCE NG SIS AHR NLG LLGS S DYPASASQVAGTIGVHHHTRPTFALFLV ETGFHHVGQAGL ELP TS G DPPPL\ASQS AGITGVSHCTWPHLSTTGKILSSGTICP GIWGQRWWAFLIL\SLPW L\LWHPCLSS IMCLSLFFF LCQ/RCKPLISD
9704	23605	A	9775	376	1	KYFELMYI PVI AICL FNSEVFLNK*QFF NL TSSSGI QNL NR LII SNEVESI IKSL P TVK NLGP DGIAATF\TYKEQLTLILKLF QKHEEAR IL S NL TSET SIT LILRKQQPK KVPNEHTVKILV
9705	23606	A	9776	192	2	NVYQPPP VF LY PPGVAGGV*PF*SP PV F RVK/LGF*GSL FFFFF FETKSRSVTRL EC SGVILA
9706	23607	A	9777	77	350	WL RKGFSRN S GKL TL YLN VYYL QTSFFF FFF KIGV*LSPT LE CRGP I WVN*NLCFP G*RD FPTL TS*VL\GPRV I LEFGFLEKT GFS HVPQL
9707	23608	A	9778	133	325	PRW VRF PYL GDCT PRVSE M LQGVVPS SSPF FVCF ET*SCS VAQAGVQ/WWCD LG SLQPLPLG
9708	23609	A	9779	145	362	R LA FGSC STC FPLT*TVLYYLI*FN IF F V FEM ELS VS\ RLECS GAI SAHC NL CT P AWTTERV DAA ANS RS MN
9709	23610	A	9780	260	1	QKQNQEKKR KK IFRNI KH QRDYNEQ*YG /NKLDNPEDMNKF*ETRYT*/PNLHQEE IGMLNRPV TNKVL* LVI KIPLTKKSPEP DG FV
9710	23611	A	9781	230	1	SSDSKTGSSV VL VACRFFFLETGSGSV TQA EVQWHDHSS LQPPP QPPK*/PGTT GA*STLAS*NAE ITGV SHI AR
9711	23612	A	9782	20	322	SQHFGNPKGNPKI FRN LE INF F RL RNAD HMI STDAQKVFDKI QHL FII*TS*QT* TERI FLN LIK AS*KKPTAN II LNG*RLN I\FPKTGETKHIC
9712	23613	A	9783	158	379	LVKII CNSF QYI S FFFFF LETKFC FFP QVEVQGGNFG*LN LPL PG L NHFS\ASAS REPEI PG PPHPG*ILV F
9713	23614	A	9785	54	312	KVDKSTKIGRN QSKMAKN SKN QNASSP P KDH NSS SPARK QNWTEN EL DEL TEVG FRR WVITN SS KL KEHV*PN/GKET KN LEK RL DQ

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9714	23615	A	9786	13	613	PGAGWARQHHGV*DQPGQHG\KRPSSLK IEKLAGHGGRCLLSPAIGGGLKQGESLE TGGRDCSEPRLCHC\MPAWGNRNRKTLSQ /QNKTR
9715	23616	A	9787	794	164	FSFLFCFFFLRWSLTLSPLCSCVTS P HCNLQLPGLSHSPATVS*VAGTIGTCHY TKLS*FF\FDDSL*APFLGVVDTEYYP DPPSSKGLLPHSGQHQHPPAISRAWL SC*VLPHLRS\STSLGQP/RIW*LSKVE V*RGFTFSPTQNTPTNNNCISIAPGRVD* SLLID*LQWCDHSSLQPQTPLK\HPPT LASQSAGITGISHHTPD
9716	23617	A	9788	256	380	YIFRQAKTQGLPPCALFREAVGENTP*V FAC/PKNVLFYVHP*LFG* I*IYQLKIT F*NYEGMVT/FVFRFLFETRSHLSPRL CSGTITTHCSLELVGSTNSSISAS*VDG NTGVRHNASC
9717	23618	A	9789	22	226	TKINSKGNKELNVRAKTIKLLEENIDRN LCDLGLGNCFLD*YCIL*TKINSKGNKE LNVRAKTIKLLEENIDRNLCDLGLGNCF LDMDTPNAQTTKGR\IDKLDIFIKI*NFWL DT
9718	23619	A	9790	288	2	QVWQE*AETESAIIHCWWERKAIAQLL*KM RWQFLKMTNV\ELPYGSAIPLVGIHGREL ER*ST*NIMFTAPLFVIGK/T*NLFKW PSPYEQITKMHSC
9719	23620	A	9791	142	361	PPGEKRVVPFTTEPSPRIPSKAKSVSQG DTCTPMFTAALFTIARMWNRSKCPSEEE *IKMRCITT/MECYSA
9720	23621	A	9792	305	346	TYEYTDYGGYL**LITFYDHAVLIIFL ICFLFL/YALFLTLTTELTKTTGGDAQE IETV*TILPGIILGLIALPSLRRLYITD DAPDASLTIKSIGHQWY*TYEYTDYGG ILNS
9721	23622	A	9793	2	317	SRDRPRVRDR*LFSTNHKDIDGTRYLLFF A*AGVLGTTALSLIRAEGLQPGPNLLGND HIYYVIVTALAFVIIFFIDLPIL\SSF G\SVYVLLILGPCTAVFLHSS
9722	23623	A	9794	384	1182	RIGKIKG/LCFLFV*WFLKFFFKMEFL PRLECNKGKI\HCNLLLMGSNSPTSASQ VAGITGMC*F\VFVLIEMRFHVQAGLK LLTLD/PPRPPKVLG
9723	23624	A	9795	205	1	GLQIKCTMRYHFAPTKMAITYFFLKKGK G\NNKCW*GS/GTEIGILIHCVWECEGMV QLLWKTADAWADAW
9724	23625	A	9796	307	348	QSARL*EAVCPFSDLQLRTGRTTALFKA VRQGHLSLQRLLSF\VCLYPAPRGAY RGRQASLSGGILHPVRASRLLCLPKQAW AMVGAPTPASLPPCSSISHCCASNQRDS VGYDPSSP
9725	23626	A	9797	193	381	ILLI*IHILLSMISSPFFFFTGSNS/V SRLECGSTASAHCSDLPGSGGSPTSAF *VAGTTGA
9726	23627	A	9799	153	359	FGTYMCFADSYQLSYLFVVGTFSWLEEE GV*WCICGSLQPQPPRVK*/FLPSLSS SSWDYRCAPSC
9727	23628	A	9800	2	396	ARAARAARELEELIKIFFFFFFFWGQIL ALMPKGQQGGILTYPNPPLPG*NNFPG

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						LTPRTGTINGLGGPPGRVNFGIFKKKGFF PPGARGV*NPGRGTPPPGFPKGR\DKA PHGPGL*TFEKVPRLPPNFQ
9728	23629	A	9801	256	347	LYILLLNLSLK*LVEKLR*NNVLASLIIR YKVTTKRF*FSKPAQSEELQLLTSAPG LNF*RYIISFFWIQSFAVVA*VGVQWC DQGSQPQLPPGFKRS/CRSWDYLHPP R
9729	23630	A	9802	109	401	HLRRPCPTPPFALRTSGDQPLSPEARPD SGLLHSPLTSRGLNGQCP PRGSTLNFN P*ASIPASPFPSGQPQASQEPPPVAEHP PDT*GDPAQPPP\RPQDFWGATVPRS QAGQWPSPPLSDFSKGAQWPVPPTR/PP PSTSTQSRWT
9730	23631	A	9803	371	2	PGFPLFSFPEGNGPSKRQTGD*IRCLF* DGKVWECSPPKKKKTKRKKAIVF/CV PVQTKCIVVEGGEETLVGDV*V*P*\GS FKHHVAMFPEK/DCLCTLYEASFKTKE SRRVDGFVCVRVGT
9731	23632	A	9804	188	1	FLFFFFSET*SQSVTHAGVQGLEQSLPP G\SGNSRASASQVAGITSRRKHSWIIFV FFVETG
9732	23633	A	9805	112	383	VFINIRVFRLFTFSFFFKRGFNLSPRVK CNG*TKGHCIPLDPGVR*SFPFSLLTNW DYRCAPPNPKFFF/SFETGSHSVTQA
9733	23634	A	9806	599	237	FRDRSLTLLPRLHCHCVITAHCSLKLIG SSELPQASPLSSWDYRHSPCLANFLF VETRSHY/ASRNSLGSSNP*A/FPKCW DWQV*ATAPSLAYWFSEAEKLILRLLAL KVSDENICTNF
9734	23635	A	9807	168	2	PQQDVFFFLETGSYSVTKAEVQWCDHG SVQL*PPG\STDPPTSASQEATGTHHRA
9735	23636	A	9808	225	3	GPLGYLPPYFPQPLISRG*NPSDFLKIS RVFVGT*HYKFELFLFFFETESRSVA\RLECSGVISAHKCLCLPGS
9736	23637	A	9809	541	3	RQLTGINSGRQRQFQPQMNSNYVIPYMMDD IIILKTKKSNNKYWQGCEKTTELLIHCLWE CKMVQLVWKTV*QFLNRS DIEFPHDPGI PPL/GYKRKKMKTCLPKKLCLVLP/ RM FTAALFEVAK**KQ/PQTPITR*INTMW RIYTMEEYSAIPRKTPLIHPIA*LDTES II*TEKIQSQETTYY
9737	23638	A	9810	213	1	FLCVDFVPCNFAELKLALVGLFVCLLFG SVTQAGVQWCNL\GSL*PPPPGLSDLPT SAF*VAGTTGVSHH
9738	23639	A	9811	54	388	PARFLPQQ/WDERPNQQPTKKKKRGRN LPTKKKTQNYSHQN PVAQRNPGGKTNQK KPKNPQKKKGAL*KKTQRGPQQTGGR K*KISPNKGGK*NPCGKLLKNPFSGGE K
9739	23640	A	9812	429	24	RSGKAEFPICPCRSSKFSVLQQRQVRIV FQHPELGEVAR/CRYSQLGRLQ*SH LNWGGRGSSEPRSCHCIPAWATRASSIF CNFQASSVEVRSARKKLFSDILKRHNT INWRVSGLLLVD SYFGRLATPVRTQ
9740	23641	A	9813	149	350	CHFPCFH TT/CE*EPGEDVTGPIGTF FPAPGRTDGHHTHHTHHTHHTHSDPH HLCVVNTLIIHFV

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9741	23642	A	9814	66	401	PENKKTVYRKPIATIIFNCERLNALPLK LETRP*YLLY*LFNIMLEVLASVVRQEK EINLSIFT*DIVIK/MKIPKNLENKLLK LLSPFSKITGYKISIQKLSSFLYYGFT\ V
9742	23643	A	9815	82	1	APPARFFFFFF*EKFSSFPPGEVQRG VFCPCNT/CFP*G*KIFFL\KPLKKVGF WPPPFPKNFFYF*KKGGFPFWARGFFI PTPFPVPPHLPPKKWGVKRG*APPFARFF FFFF\GRVSLCHPGWNA
9743	23644	A	9816	256	2	QHFP*LPIPHIPITQT*QHFQTRSPFQG PPLCQKPFSSPWGSKVVFILLSFFFFF* DRVSLCHPGWNAVM*SQLTAASNTW\VK *SSHLSLLSS*DYRCVLS
9744	23645	A	9817	53	411	TIYCSNYVYNFVSQHFRSLYS*KNCGLC L*FHLFVLQS*NFMQFHM*FCLKI*VDP IITFEV*FTYI*FF*TYSSVSFTDAYNF VKPHR/VYRGPGAVAHICNPSTLGGQGG WIT*GQEFK
9745	23646	A	9818	100	417	DEHSEKQDPLQRPRSKLLPFPGBTTPSS LLLLHNHQESGLTHVRLASCLRNRGFC FDMKERLCLLPMLECRGMISDHCSLI/R PG*DKPPASAYQVGETTGTYHRA
9746	23647	A	9819	136	2	IYMGMQPGAVAHACNPSTLGGQGG/WWI T*GQEFKTRLANMVKPC
9747	23648	A	9820	257	426	IVPGLFLGTGSCSFTHAGVQ*SNCSSVQ S*TPGP\SDPPASASRVAGTTGAHHKAW L
9748	23649	A	9821	151	416	LHKLCLMVMESGTAKTFPSLSPIFNSVGL ILLLEYSIDSCLC*SVLCCYKEIPEAG* FIJKRGL/WLGVVVAHCLSTLGGRRGW ITRSGN
9749	23650	A	9822	50	513	RGDPRVRPRVRIIKLSEEGMWKAIEGRK LDLLHHTISQVNSKEKFLKEMKSATSV NTRMIRE*NSLIADMEKVLVV*DQTSHN IFLVQNIIKSKGIGLFLKLMRAKREES/ AEGKLDASKGRFVRLK/EKRSHLHNMKV QDEASVDIETTASYLK
9750	23651	A	9823	48	406	LIIVVYTLITTRIGHSAVSYPLLRRPPYS LRHNIEIRPINNPTMASKCSSERKSLLTS LTFLKIKMIKLSEEGVSKAKTG*KLGL L/R/QTVSQVNVAMKKYLKEIKSATPVN T*MIRKQNNL
9751	23652	A	9824	143	444	WNKKNKNELADMILWCGCDKTIFMRKL TRDETKYGIPLQLALRGHSHFVRDGV\N LDGQVDSL\G*WDGTLHLWDLTSGSTTR RFVNK/TKDVLASDFS
9752	23653	A	9825	297	2	HRSPTKETKIIASIKKKTMITKDLNRQF SKQDKHLTSEYMKRCPTS/LREM*AKTI MRYHLTPIRRARIKPKNK/NKSKCW*GC GETEILVHCW*ECKMVP
9753	23654	A	9826	175	400	GGGGKGNFSLKGGEKKTNLGIFGKKPIF GGGTNGANPPPPIKGSKEKKNF*VFFPP FPFPKNFFF*NL*FLGGGWPHLSPPQK* V/CFPKIPKLVFFSPPLREKFFPLPP* NLGPPGF/SFWGPPPLFFFFFF*RDKF SFYHPGWKAIAHFSLELLGSSNPPTS
9754	23655	A	9827	64	622	MFSFFLFDLILNLFFCFV*MFSFFLFD

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						LILNLHFFCFVIRQQFSFLFF/ISFFFFS FFHCNVNTPELCDFSVCIHSDNSFRFLH LF/NF*HMTLCISELR*TLKQSCYSYTK IC**FYSVQLSFLTILY**CKS*QALSI ALQNEFLSV\QYHKNMNYITLTIEFSRN KFLSVTFLLFSIFSHNFGISASISIFIL HYVYKNNPIGFFK
9755	23656	A	9828	298	1	MRNCLTDDERKWFPEMASTPGEDAVNTV EMTAKDLE/Y**YINLVDKAASDFEMID SNFERCSTV/NKMLSNSTACYRENFHER *GQSVQQTFTVVRGERV
9756	23657	A	9829	361	1	FLTGTTQWGK/DSPFNTWC*DHW/WTIHRN LDLYLIPYIKINLKQLTGPNLRAKTIKL PEQNIGENLCDL*LSRERYSTKSITRIR KL/DTLGFIKIKKNKCISKDTIRKR*ATD WEKIFANHVLKG
9757	23658	A	9830	402	2	RFHHRFSVLFGPFAKVAFPIGAKNFIS NHYWAGVFPFWEKKNKIDSFLPPFSKNP ILGELKA*F*NFLF*GFQIFF*SLFFCP FGGK*IPGVFSFFFFFLVFFEIGSHSVP \RLKCSGTITAHCSLDLLGSSN
9758	23659	A	9831	2749	3215	FCQ*IKMYVMCICIYNFRRVYLCIYTYL HTHTFTHTHKHTPTQIPEKDS/QCSLSD LKGHSL
9759	23660	A	9832	3	386	KLRLGQLNTSAMAAKC*SERKS/R/THL TLNQKLEMILKSEEGLKAVIGQKLGLL YQ/TSQVVVNAKEELLKDIKSATPVTA*M IGKQNSLIVDLEKV*VV*IEDQ/TSHNI SLSQSLLQ
9760	23661	A	9833	1	370	RRCRWPPDPDSRTVGRQIGKLVTHRPTVF QERGCPFPPLTRQAGSHHGGGAFAQVISP TKSISPCGRGGSRL*SQHFGRPMQVDHL R/LGVQDQ/RWPICGQYGETPA\LLKLP KISAWWWLAPVIPA
9761	23662	A	9834	125	409	GQEENRETWKIVHLV*VLYT*HIKRLNCF SHFI*CYQPTASQAHVHHDNSDSTS\HVN*N*NSRWPGTVAHACNPSSILEG*GGWIT* GQEFEETSLANM
9762	23663	A	9835	223	1	PKPKQMGTF*PPMEGS*MGPPHWEKMGP FLKKKEGHPPFFFFFFMESRSVT\RLEC SGA/TISAHCNCLPGSSNS
9763	23664	A	9836	377	515	FILFLRQVLTLLPRLEYSGATVAHCSL\ AF*G*SDPPASASRV
9764	23665	A	9837	274	1	AGEWHDOJICVFKIPLMKNGLHGARVGOE SWKERNQQV*DRCQKQNLSDS*IQT*R/M/WPGTVAHAYN/PSTLGGQGEWIT*GQ EFETSLANMVK
9765	23666	A	9838	553	114	GAGVKTHPGKGKTLFFFQKLPGV GGKTLPSPLSRGLGRENSFHPGGKGGSNK QSSPPSFPG/WGKKGGGLPFQKKKKKEK RKKGKKNVGAPSEPPLKYSN/WQATWG* RKLNDTMRVQPTKSRMQKILQDKGPVN GIFTKTGRL
9766	23667	A	9839	36	434	LPFPQCVCTEFIIVLISWCYIREACKNL KHVAITIINVCIYICVCVCPSTLYVYMY MLP/HLSDTLLTLN*VTLVEMLSSFOCL MFVYHGH*K*HELDVVAHACNPSTMGG QGGWIT*CQEYKTSLANMVKPR

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9767	23668	A	9840	268	1	RFPFFCFLTILFWAPGVVFSNFLGVRA PQPP*IFFPI*KKPSPLIFFFFFFEKE SRSV\RLEYSGTISAHCKLCVSGSQHSP ASAS
9768	23669	A	9841	463	86	LYMHEFISGLFLFCWSI/WSVLCQYKN CFDDKVYGLDYGNTSQVFT*NSKLKLY TLTMYSFCLCINQTTIKPSEMIQATKANI DK*NYMKLENFTCAKETVNKMKRQLKKW EKVFSIHIPQEVDI
9769	23670	A	9842	37	400	VHSPPFKFWLSLYVSVLKFPPCSLYFKFL ALYSIFLQMCQHLLV*AFFF*KRGLNSV T\RLECRGAISPNCNLCL/SGSSDNWAS LPRKAEAGNSFT/CR*SQVAGNPIPSIS TRLNQRKTPFES
9770	23671	A	9843	42	407	NCLSFLITFFFFFLFENKVSFCPQG*G/ RGGPFWPHGTLLPPRG*GNNNP*LPGRGE *RGAPPNGYFWLGKKRGFPL\GQGGS KPPALKEPPPGLPPKG\NYKRNPFFFF GNFF*LPPYQVV
9771	23672	A	9844	113	379	LGPVVATSLRGRFLGYQLOQSKKH*NYP TVR*GCGERMTSVHCW*ECKTA*PL*KT VWQFLKKLNTGLPFDAAETPL/LAETPKELKA
9772	23673	A	9845	284	528	PLPKTMEIMLDKKQIQTIFLFKFKMGHK IAETTRNIKNAFGPGTANE\KCTAQWWF KKFCKA*E\SLEDKEA\*GHPSEVDTN
9773	23674	A	9846	888	1295	LEQGCNLFLHKHS*LGEVFFFVCFRRSF TLVAQAGVKWRDLGSL/HKLPSSLSPS SWDYRPLPLRLA/NFFVFLVEMGF\TVL ARMVIS*PRDPPTSASQSAGIIGVSHR AGPVAGILMFCRWNISNKPKGAVFKKK
9774	23675	A	9847	88	387	AYRMKIIDRISLSSLTYTAALWVTLFLFLF LFFFKTEFCFAPQAGGQ/WGQFKLMDP NPPPPG*K\DFLVSHPRDLGIKGAPPQC GONFVFYKEKGWLTTAT
9775	23676	A	9848	298	438	KIPRGAPNFPGGGKIFSPPPLGGPIKTPR GALEKKTLF*VRGPWPGFVKKESPRPKK LG*QIFWPPGKKPNPPMGG/SLDPPPPL ILSRPDPP*KKKKKKKKKKGGGPLKNP PGGPKFPRGGKNNFFPPFRGAYKNTPGGS *EKNPFLGGGGKKRKQP
9776	23677	A	9849	251	498	AIIKKMESTKFW*RHGEIGTI.IHCYWEF KMV*FWKTV*QFLK/D/LNMGLPFDSCA FQLPDICLGELEKTYVHTENCTQMFMAAL F
9777	23678	A	9850	478	37	ESRNKHSHLWSINFQKGLR*LNRGKQPL NK*CRHNSISTCKRMKLDPYLTPYIKI\ KSKWTKDLNRVAKTIKSLEENIEVNLHD LG*GNDFLDMTPKAQTTK*NID*LDIIK I*NFCGSKDTINKVRRQSTE*EKIFANHVADKLK
9778	23679	A	9851	2	378	RLEGFLCALFCSIAICMFFFFFFF*K KRGPFGFQGGDPGGNFRQLDPLPPGIKQ FWGP\PPRKAGKTGGGPPPGANLGFWGK KRVPHGGQKGFP/RNPRGSPPGPPKG GVAFVFRPKPPGLEQ
9779	23680	A	9852	229	3	FGPYKIFFKKKGAPCPLENPPVF\HQKL GLGFFFFSFFFF\DGVSFLLLRKCSAA

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						ILAHYKFLLPG*SDSAASAS
9780	23681	A	9853	108	420	GPRVCVRLSLRDDS DLLATEDSLAHTEG DPVTASSHSQAPSLSVHPGAALLEGVCWG TGAIAGTPEPQKPPQLTPGGGRPA\PIAP GLTWEPSSHPPQ*RSPPPQ
9781	23682	A	9854	2	256	FFIFPLRLYYIYCARFQFLSPILYLGK*K MD**RRVFQEKEWQAYFVFVEV\SPMCLI CNQTLSVSKEYN*RCHYETNHGENFD*F TEKMHDENLHLTTTRQP
9782	23683	A	9855	323	3	I IQMANKHRKRH\QSQ**VRVMOKKIIM I HRYIPQWLKTSKSDMIKCCSGYGTIEI FTHYLWECKLHLLLWRMVWL\ILLFKFT DTPHDPAIPLLGTYPACMHMYPRA
9783	23684	A	9856	28	385	DGVTQAGTQWGSKFTAAT*TA*YQGSITPN AWSFFS PPPVLKTPPPPQKK/YPPPDKK KIPPPKKK
9784	23685	A	9857	436	518	AANLENIYRHLYDKD/EHYRIVGKDD LFNKWCWNWI/ASNKEKNLDSYLIPIHT K/LNSR*I IQLDVKD*I IKLLEDNLNYLH DLGDRQKFLGRI/PVFTIKKKIGKFDPM LKLSTFVHQKTPC*RLNSA
9785	23686	A	9858	153	492	RLAGSDPGVADVSVQLQRQEKCPCPSWK AVSQAESSSSSAGVSLVLFRLRADWMRP IPIKEENKL\SQSTDLNBNFIQKHCHRNTQNSV*PGVGPPGTCGPFRRQSSP
9786	23687	A	9859	2	419	TTGKLQVSHKKSTYSHFSKKPTHTTNKD MKRYSPSL/AIREMQSKTTG\MRYHFTP KYG\NNKCWLGCGETEFLYIW*ECKMV QPLWKAVWHFLK*LNIES/PIY**NYS* YISYSWRKTCTIYDPVILLGIYPREVKTH
9787	23688	A	9860	88	419	TFFFFFGFWFLKTKPLFVPLQFLFEGPGPI LG*WNPPPRD*KNFS/GPNPPGGGE*RA QPPPPGYFLFFFKKK\GVSPWGGGGSKPP TPGNPPPGPKIRVIRGGPPPPGGRKHF
9788	23689	A	9861	301	401	KRA**GGQEPIKVCPLFFYNRKVGNNGSPPK KFKKGRRRAAFFGLRANKRGLFVKKGKJ WVKVGEPIT/DPFKEFCCR\LPEDGP LV.
9789	23690	A	9862	220	415	KIMGGAQI FRGGGGGGFFFLEGWEKNFVG SFRRKFFF GGVLPLPPP*HKKNYFSS QRQYISLGGGRKT PPPKKNFLKDTPK LFFSHPSKKKNPPPRKIAPPMTF*I PPPPIFFFFFFF FFFFFFKN*P/S FFFNFKKPPIKTFLSPPFKVFPKKKKKK KKNPPISYRWPLAI
9790	23691	A	9863	116	366	GQEFTSPAMFCFETECSIA*AVVQWH DLSSLQPLPPG\SGDSPASASRAAGEL EPRIRRQLSVEITPLHLSLGNRVRLHL
9791	23692	A	9864	619	295	FFFEMEFSLLLPRLECNGAISAHRNLRL PGSSDSDPASAGLL*SQVAGITRLRHHD *LILY/FLVEMRFHRVG*AGLELLTSGD PPSSASQGAGITGMMSAGHYGKIF
9792	23693	A	9865	12	432	IADRRLLFFTNNHKDIGTLYLLFGA*AGVL STALKSLIRRAELQPGPNLLGNDHIYNGI GTAHAFGIIILVIVIPVIIIGGFGN*LVTLL IIGAPDMAFPRINNISFGLLPTSLLLL TSAILEARAGTC*TVYPCLA\GGYSHLG

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						A
9793	23694	A	9866	30	380	LFSTNRRGIGPLYLLFGA*SGVLGPALT LLI*AELGQPGYLLGDDHTYNDIDTAHA FVIILFIVIPIIIGGGFD*LVPLIIGAP DMAFPRIN/NISF*LLPASLLLLLASGI REGRSK
9794	23695	A	9867	256	395	EVLRKSEKSFETVCIIINNK/WPGMVAH ACNPMTLGGGRGRT*GQEF
9795	23696	A	9868	458	2	PKKRFFSQKPPRGFYSAPlKGKNYIFPP PVNFGPPKDFFKGPPPLFFFFFFFP RFFFFLEKG*KF*NFFFNT*NMVFFYIS /CSKKFPFQFVLTPIPF*KVPKPWFWF DFPIFFKKIFFFFFFCDRVSLLCHPGWSA VARSRLTASPRV
9796	23697	A	9869	144	425	IPLCSRIYSFGPC*FSLISSSSCLSPFL SIPLCVLS**T**YLFFYISMREIYKTR TKGIYPGAQRNSLYTH\FSIEVQSTIKA ERFWPGAVARACNPSTLGGRRGGQITWGQ EFE
9797	23698	A	9870	138	401	DRLKLNLNSKNIIRLQGTVESSVLTIKE MQIKAKVRYNLIPIVKIKR/SGNDRWW*G CGERTGLIRC**ECKLVQPLWKTWWSFL KKKK
9798	23699	A	9871	179	441	PSGKGGIKGPPPPPKKIFGNFFFFLKKK GVPPGPPGGPKPRPLETPPPNPPKGGEY GGGP\WPPPPPIP*FFKGPFKKKGPPWTN RGNP
9799	23700	A	9872	57	435	FTQMRKNLKNNSGNMKK*GSITPLKDHS NFPADPNQNEMFEIPGKEFKK/SDY*V TQGDTRERCKPT*VLKTIILDMDEKCSKE MDILMKNQSELLEKKDTFRELQNAMESF NNRLDQVEERITELE
9800	23701	A	9873	228	443	FSSKFLISVFLFLLETGSCSVAQAGV QL*DYSSLQPQSPG\SGNPPIASQIAT TAGACLHALLIFVFFF
9801	23702	A	9874	349	2	KKPKKKNFLLPKNFGEFFSPFSP*KFFF LKGFNFFRGFFPNFPPPKKFFSKNSQL VFFLPPLKKKIF/CFPTPVKFGP/SQRF FLKGPPPLFFFFFFLDRVWLCPGWSA VARSRS
9802	23703	A	9875	405	2	KKASRMENVRKKKLEMILSEEGMLKA NIGQKLSLLAKQQVVNAKENLLKEIRSA IPLNTQMIRMQNSLIADMENIL/VVWI/ EDPTNYNIPLSQLSIQSNALT\FNSMKT ERGEAAA*EKFDAISG*FMTFKERS
9803	23704	A	9876	355	394	THPYYSHQEQYQSP*P/LTGALSALLKTS GLAM*GHFHSITLLLILGLLTNTLTIYQ* WRDVTR*SAYQGHHTPPVQKGLRYGIIL FITSEVFFFAGLF*AFYHSSLAPTPQLG GHWPPTGITPLNPLEDPLLNTSVLLASG VSIT
9804	23705	A	9877	47	85	TIYIHICVRIYACECVVCAYIHCIGVP AHLTEQNL\KPARTQSPPAPQKNPELPV DLVISISLDREAQDVELNHYRLGNTCRTD VLPKVNTLCLRL/NFFPCLPILEELQEL P\LENIPLFQPQPIDYIYTMYRAYICV
9805	23706	A	9878	2	389	GRGQFPPEFFYFWGGSLVPSTPNKKP LGEVIGGGWSNRAPKGWGGGFPPPIALAF

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						KPKGPFGPKFVLKFSNVPPLLFFPKMRG PLPKGGGLPFFFFETKSRSVTQPGVQ WCNFGSL*PPP\TGSSNS
9806	23707	A	9879	351	1	FLGPSKNFPNPFPQKWPFAFPKSHRAR VNEIFS/RLSVINF*GLTKPQRLLFSLL NFSS\PIPPFQFPSRLIKEIRFSTFLTP ENSKIKKPLFFF*FFFF*DRVTLCCPGW SAVQSR
9807	23708	A	9880	123	387	SFLWKLRPSGAPTCMRCLLA\LLGGVSQ LGYTGVRDPLEAVCPFSELQRHAGKT ALFRAVRQGCFFFAYF*IELFPCY/CSG RVGG
9808	23709	A	9881	341	659	SFLGRVQWLHACKSQHFGRRLRQVDHLRS GV*DLPQGHDETLSLLKMPK/QKLARHG GMCL*SQLRRRLRQENHNLNGGRGCNEL RSQHCTPAWATEQDSISKTKTKK
9809	23710	A	9882	216	1	PKFWVLRDQSIFKPGFQPQGFF/GGFG NPQGKKPGFWGLG*KKKGFFFFFF LRDGISFCCPGWSIQW
9810	23711	A	9883	2	244	GRVGAVGRREGENFIKCDELPPPPPEGK QQNLCKFLTGFSLPCQDKKP\CFFV*KX KKKKKKKKKKKKKKKKKKKEKGGGGA
9811	23712	A	9884	310	2	IFLQTLFPNTFENSLSEYCIIFSEYSFT **KQ\TNFILSILLYYI*PSGSYISNL *Y*ELFSQNLSYQHFLWI*KKWGLGAVA HTYNPSTLGGQGRWIAWSPG
9812	23713	A	9885	242	358	KTVWLYMNT*MANNHME*CSLPLVIREM *IKTPVTVH\TVGMAAI*NKK*NITR/C W*ACRETAVALVCWGFEYTQPL*KTVWL YMNIE/IPCDPAIPLLGMYLKE*RPGTV AHTCNPR
9813	23714	A	9886	360	2	LLKLGFPFWAKKGKKRLLWEGPLGKP GGFCQKLFFSPGGPKGFPSPSIIILPKG *PVVWGPFRREV*KKRFKLKKFRPTFS /Y/LFFFFETEHSVA\RMECSGAILAH CNLCRLGSSD
9814	23715	A	9887	236	347	IKGFFFF*TESHSVT\RLECTST/SAHC NLCLPGSSNSP
9815	23716	A	9888	310	3	NFFFFFETGSCSVTQARVQWSDQ/GSLQ PRSPGL\SDPPTSAS*VAGNLKFLSGLC SSL*SLEIS*DTKKSQVQITDDLCYTVV LCLFFEMESHVVQAGVQWH
9816	23717	A	9889	119	391	APAYWNPHARDSPFFFF*TNFPFFPQVG GOWPNNSGSPQAPPPG/SPPP/YSASASK ISGAPGAPPPGPNNFFSFSSPTFFSR DGVSPYEP
9817	23718	A	9890	195	3	DGVSLLLPRLECNGTILTHCCLSPV/SW DYRRLP*RL/V*FFLFLVEMGFHHVAQA GLELLTSGDHP
9818	23719	A	9891	3	378	RDGERNMLALGTASAKALKYSLALSLPR LECGSTIISHSSLNPP/GLKWSSCLSSST SSWDFRPAPPFLAKKTKQO/HATFF*EG ESPYVAQAGFKLLASSSSPPAFSLPKCWD YKL\DRHAW
9819	23720	A	9892	231	1	PKPFFPKFFSP*N*KPFFQISPARIQKI RVYQS\HKKFFSFFFFHGVSLLLPRLE CNGTISAQCNLCLSGSSDSP
9820	23721	A	9893	2	347	APARQENVVCVYVCVCMCVCIVVLRHC

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						EVLCFYKMLGKRSIYAY*LVY*YIYIH MCVYIYI/YIIV/YMYIYTYYVCYIYTH
9821	23722	A	9894	28	382	TAHLEAGATGYRTFLPAIGLLCLPWVL DDGAGQTAQ*SMLLDHAMLLAHRAHELF I/DTYYEFETYIIPKDQKYSFLHDSQTS FCFSDSIATPSNMEETQQKSNLELLRIS LLLIESW
9822	23723	A	9895	93	386	FWKIISHYVFKYFSCSILISPSDLPICT ICMFHLLKLQCSEFLHLLLFWVLFVET QSHSIKQPECS**LSAA/CHLPGSSDPP
9823	23724	A	9896	174	1	TLDWGPRKKNPFFFFETRSRSVTTEAGV Q*HNHGPLQPQPAG\SSDSPTSASQADA W
9824	23725	A	9897	251	386	LQRLECSGTI/SAHCNLCLLGSSNPLAS AS*IAGTTGTLGVDST
9825	23726	A	9898	127	393	GHMGTLTGSPATLSILALFWGGRISTQ LDGINKS\FSLFLYFLRHCSLSLRLE*S GAITYCRLELLGSGDTPASASQETGTA GTCHT
9826	23727	A	9899	3	334	KLRIGQLNTSAMAAKC*SERKS/R/THL TLNQKLEMIKLREEGMLKAVIGQKLGLL YQ/TSQFVNAKEELLKDIKSATPVTA*M IGKQNSLNCDLEKSCVVLIQDQTG/HNI FLS
9827	23728	A	9900	356	1	GRKPFSHLPKATLLPMGPVLLGGRRALMG PDSRPGPVPSCSLVLLTPLAPLPLTARE SLCPCPPS*TPQPSVNP/H/GKLARRSP CVVSGRQSLP*AEIVPLHAPPALGDRDE TPSKKKK
9828	23729	A	9901	118	343	I PYAKEKKKQENVLRFIHVNL CISNWFW FETGSHFVTQG*VHWCNLSSLQP/PNLQ GSGDPPTSASRAAGATGVQH
9829	23730	A	9902	321	50	SLRTRV*RPPSAPG*NPFCLKPQKIFQG GG\ESPLSQLKRVKQENSYNLGGKGFN *PKLPPCPLTWATKKTSPPKKKKKNYR TWETSVS
9830	23731	A	9903	317	8	NCYDPNSGIVIPLLGLPKSTK\T*VRT KTCT*MLIVALCIITKKWK*SKCLSTD QVNKI*YIHIMEYYSPIKGRKY*HTLQH /WMNLENIS*KRLDIKKPHII
9831	23732	A	9904	287	3	RGAINGRGGRGGPRGVKSPGFAPFKLQLKPP GTFLNPK\QFPFFPNPPF*KKGAFFHFF LPLF*SFRWTEFYSVT\KLECGGAISAH CNLCLS.CSSSDSRA
9832	23733	A	9905	2	406	PRVRTSSRSRATALFFFFFFVFFWGKG EIWAPPLKNC/IPPEKF CYFGGGAPGAG LPPPPGVIFFSLCRVVKKKKKGAPPGG VLGKKKKTPFTPCKGGTFLTLCGF*KKSL FGKKTLLWVGGLLLLKNFF*EKFR
9833	23734	A	9906	1	296	IWVGATECIFKNNPTIWHQETHFTCKD TYRLKV/KGWKKIIFHTFHNGNQK*AGI AIVISDKTDFKSKTIKR*KGHY/IMTNG SIQQGDILDWYKSNCSF
9834	23735	A	9907	474	41	FMEYLTLSFIHVLLQ\FIHCFVHLFIHS FFYALMKSLIQ*FIHLYSCF/ICIDLLI SSCIYSFIVALVKSLANSLTHSFHTEFL Q*FVHLFTPLLICSFTHSSIH*PSHSLT FIQLHLFFFHALVSGFIWSFIYLFCKINV

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						FLIDK
9835	23736	A	9908	286	84	LKPPPPFFFFFFQANFLCFIRD/GFHHVG QDGLPLLTS*SASHGLPKCWDSCRALR PASPLISGPHQT
9836	23737	A	9909	316	63	DQLLVRSIGFEALMSPIFFFQMEF/SLS LPKLECNGAISAHRNFCLLGSSDPPASA AV*/PMANLLKLCAASVSYCIELVLNELH WIK
9837	23738	A	9910	370	461	F*F*FLFSETESHNSVA\OLECSAMISGR CNRLLLGSGDSPATREAGAQESLEPRRQ SEFGLCHCTAAW
9838	23739	A	9911	294	28	PGKNSTVQKEPGKWFCEMKFTPGENAVN IV*PTTKDLEY/WINI/DKTVAGCERTD SNFERSSTMGMKML\SNSIAWYTEIFRGR KSQLMGI
9839	23740	A	9912	307	463	CKL*TLSNNNDVIVGSLIVT/TCTTLVGV LIMGD/RLCMCGEKEYLGNLGTFLSIL
9840	23741	A	9913	377	28	REMLTVKPLAPSFFRWSRAYRAIFFFITP TWVKSGKVTPGPLFFLHIFFPGP/CPGL PIFFFIKTKGTRFFFGWFFFERVSLCC PG*MECNGAISAHHKLRLPGSRYSPASA SEFHR
9841	23742	A	9914	384	725	HLTAIRMTVIKDTENSKCERGC\KTLMH SCWEYERVQPLWKTRW*F/LQQVE/LPS PCDPSIP/LLRMYPK*LNTD/CKRMC/C IPTSIAALFPVTK/SWKQ
9842	23743	A	9915	187	3	QPHKHLGLDNIYIFFEIGFCSPAQTGVQ *RDHGSLQPRPP\GSRDPPTSGSRVAGR PRQENG
9843	23744	A	9916	15	167	DGVSLSLPRLECNAGAILAHCNLR/LPGL K*FSCLRLPSSWDYRLPPPNAHV
9844	23745	A	9917	345	477	YCSRTSLPL/TLKKGSA*PGAVAHAYNP SILGGRGRWIT*GQEFK
9845	23746	A	9918	460	42	HQRPKVDKTTKMGEKRSRKTGNSKNQSA S/APPKERSSSPAMEQSWTENDFDELRO EGFR*SNYSELKEEVTHRTHGKEVKNLEKK LDEWLTRI/SNAEKSLRDLMELETPKA*Q LPPERTNLSS*FNQLEERVSVMEDINK MK
9846	23747	A	9919	282	21	AAGYLQPSEFWLHSLGSRRGLPISVFPV

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						RGRQAWLSCDGYHPVPRPSRLLCLPTQA
9851	23752	A	9924	254	3	PGGFYFPGLPPPLGFPKGFL*RLWPPC PATFFFFLYQISKFPFFFFGKYQKNFFF FFFFPESKRSVT\RLECNAGAISAHYNL
9852	23753	A	9925	309	1	YTPTIMLLGIYSNELKTNVHMKT*I*MF TATLFLIAETWKQPRCSSLSEWI/QQLW YIQTI/EYYSVVRRNIK/LMKTW/MKLK YILOSEKTTQSEKTTYI*FQLYDI
9853	23754	A	9926	237	2	RWNFNFTQLILKCIFLRTKFFS*VSK*N FKYFLGFWWFFLRLQGLTPV\RLECSG TISAQCNLRLPGSTDFAASASQE
9854	23755	A	9927	244	1	KPQCLWRK*D*WHNTQKLDVEKGKPLIH YWWERKLV*PLWKTVVWRLMR/NLKIELP YDPVIPLWGNYSKEMK*LCQREDSRA
9855	23756	A	9928	2	644	IVQVDQKIRLNINHCLQETHFKCKTYRL KVNR*R*VYHVNNINQEKALVAIDGAYFR ARKITRDKERHY/IMIMGSMLOKD
9856	23757	A	9929	1	364	GTSGTRPINNTTVFSKCSERKT/R/TH LTLNQKLEMIKLSGGGISKTDMG*NGLL LHQTVSQVNTKEMFLKEIKSATPLNT* MIRHQNSLIAAIGKVLVVWIDQ/TQHNT LLSQRQLIWNKALT
9857	23758	A	9930	88	374	ILKACGPGCPGNPHPWGPL*GQGGLGLNP SKSPPHPHPRGDPTWGTPIGDYGPKP P KLPHGAGLPKKPCSSGGQNN/PKISGP
9858	23759	A	9931	384	2	LCSPQPRFYRKIWHGGGQGSRLLPPPFWKP GGKDCFSPGVLDPPGEQRGAPCFP*KKI RWG*GAAPVVPBPQEG*\VGRAPLTPKI PAPVSFGCSPALPGEQQSETPFFLKKKK KEKESEAMIPPPPGPRA
9859	23760	A	9932	32	359	IFFFLFFF/C*KGGPPPVPQAGGQGPKT PPWPPPIWAKKTKPLSKKKKKKKGAGPP PPPKGGGPPPLKKGEGPLLKRKFLLKNGG ENFKKKKIWAGGGGNPREPPPFGGAR
9860	23761	A	9933	138	1	TGFCCCC*SFALVAKGGVQWCDLGSLQP PPPG\SSDSPTYASCSC
9861	23762	A	9934	103	355	LAGQACCS*STSANRCVNHA\PGYANGR . CDTITCILVFIRNSWLITPIALITMFCY HVG*VRPQEQQPNRVSLSDL\PPVTC
9862	23763	A	9935	29	363	AWSHNAFLFFFKRELAFVPRGERENN FVSLKPPPPG*SPFSAPNPKGGNKGPP PPPQLIFFYF*/GEKGFSPPNPEGPKPP TLGKPGLF*NTKKICPQPRGLKKGGQHW
9863	23764	A	9936	173	363	PKKRPIISLKRNFNSNPGD*QKFLKRGL PPMGSQFKRGNYPYDKNLEKLCPGGGNK GSG/YHYGL
9864	23765	A	9937	360	3	NQKMRKNQSSKTGICKNQSACPPPKERS SSLAMEQSWMENVFDELREGSR**NYS ELKEEVTHRKGKEVKNLEK/NLDEWLSRI S/*EKSLLKDLMELPKAQELHGECPSSL SSQFNQLARA
9865	23766	A	9938	194	370	VSNFFFFFFEFCFSFAQVGAQGQNFR*L KAPPP\NCCLFPT*ASRVVGTGTCCHHS WLT
9866	23767	A	9939	426	1	SOEFKVAVASYDLTMHSNLNSSETLSQKE KTKQTKTQKKTY*EGRKHIKRCPTPLI

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						IREQIQTTCVRYHFTTHIRI/VLLPOKON KCWCRCVEKLKPVLRC*WECETVQPLWIT VWW\FLKILNIKLPFDLATPVVCIYQME FSC
9867	23768	A	9940	255	16	RVIYNIYIYIMYLCIYTPSRLLVEIGFHH VGQDGLDLLTS*SIRLSLPK\CWDYRYE PPCVNIYIYIYLHIYLIYMSDGVKY
9868	23769	A	9941	206	355	FLQGHTAIKNGRG/WPGAVAHTCNPSTL GG*GGRII*GOEFKTSLSLNMVEP
9869	23770	A	9942	3	402	HEELNPRSATSSPALVLHVTIAHVTIAF AEGCFQHDFCFSQPENRHIPLVFTTAK VRNIFYLLCRGRGILRFFLVCCLKIDPAI PLMGIYPK\KSLYHKDTYIHMFIAAEFT VAKIRYQSCKPSTDD*IKKICV
9870	23771	A	9943	79	328	CIKILLKFLCLFCILPPCLNFFLRQSCS VARAGVQW\SLQP*PPRLKHTPTSAS*S AEATRGTHHHAAHLIFSYNFL*R*VSHVA
9871	23772	A	9944	321	414	VPSWAG\PVAHACNPSTLGGRGGRT*G QEFE
9872	23773	A	9945	142	480	QEAKSFDFSDSTTMEVMLDKQIRVIFL FEFK\MGRKAATTCTNIENAFAPGAAND *QMRWWLEFKCKGEESLEDEECSGRPSE VDDDQLRAIIIEADPLTTIQEVAKELSID H
9873	23774	A	9946	191	3	FFLPRGGGDSVFKPKKKNGFPKIFPF CPGFPLAT/INFPPQIFFFFFFFF*DGVS LCHPGWNAV
9874	23775	A	9947	451	461	K*INK*KVKGW/RKEHHANINQKKVDVT IFISDNMNFRKKNKITGDREGRYIIIHQ PIHQENIAILNVYVPNNRVAKYVK*KLI ELKKEIHKFTILVGDFNTILSTIDRTTR *KVS
9875	23776	A	9948	186	405	NHTLAISLF*PYKP*AILKLGIVRKERK LVC*RDICALMFITELVTAAKLWNQPKC PSTDK/WKMWYICTMEYYS
9876	23777	A	9949	18	412	PEFRITTLPEKKNLL*LTN*VSKFSGY NINI*TSVAFF\YSNNKISSETGIKIVPF TILSNRMKYLGM/TLTKNMKDLHENTYK MLRKENEELYQMGNGMSWILKINIVKISI LHKVIYRVKFLNSFNAILKK
9877	23778	A	9950	1	396	LAFDGRAERLKTGFHRVTQDGLELLTS* SVRLGLLKWDYWREP/PVPGLWD
9878	23779	A	9951	307	405	GIRVR*PQGLRPPNPDALVFKKMVWPP PTN\PRGGGGKGWEPPQGPQDPQQPQAAP GFLPETWRGPWNSLPTRGAWPPNSNLPP WPPAPSRRHPAQRAPGPSTAAPPPGGGE GDPPGRV
9879	23780	A	9952	2	402	YGRPKEGGSSLRFVVLTPGPKGETPFFL KTQKITGGGGGP*FPLPRVRQENSFY SRGGGFN*PKRAPCALTWGKKQKFFLKK KKNTPQPKKLPGCRIQY*TQK/SSSLF MGTPGKRQ
9880	23781	A	9953	249	1070	SSFISRFYFICIVLFETRSHSVTKARVQ CCDYN*LQPQPPGQAQEILPLQPP*SAG\ ITGVAPNTPQLIFYFFVE/SGGSTHVAP RLALNSWAQNIAL/RLPKVLYFTF
9881	23782	A	9954	75	396	GFKGRKRLGLPLPNQKLKTINLSEKGLS KANTGQKLGLL/RPVSQVVNPNGKFLRE

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						IKSAF/PIEK*VI*KONSLIPDMEEVLGV/WKTKKYSHNIPGLSLTQKRVLTLF
9882	23783	A	9955	181	458	RLWNDGLYNIFDLKLQ/SIHV*SLLLLF ILEPESHSVS\RLECSGAVTTCCSLNIP GWSDSPPQAFQVAGTTGVCPNAWVPSAF L
9883	23784	A	9956	67	430	LAPRLLYSPIKFQWSFMSVRQTQVQSLA IGNFHNPRLPILICHCYAFHRILLFQMV RNFIYLSISISANKQESKCILKYILLYI NLRNWLGTVAHAYN/PSTLGV*GGRIS* AHEFETSQGN
9884	23785	A	9957	77	422	LPLALWASCRPQLCLDTDFIHGPPTSGA ASQFLCFQTMQPPTCSSRLYNL*PALV LDHTTSNVVCFRSP/SFFFFLPLPLPPA PLP\FFFFFFFDRVLLCHPGWSAVARFO LTAAS
9885	23786	A	9958	3	422	LHSSLVTEQDSISKKKKKIFLGGTKK GGPSLGGGGGGFPKIVKKKRGALIG FPFCPKKKPKPLFFPKPLGKPPRKKG F*IGEPWKT/EGPGFPKKLNFVFFSPWG GNFLFPPQKPGGVGKILLQPKKKPPKG G
9886	23787	A	9959	370	2	PFSSWWANFREGDGEKCSVLQGIRFCMF CRYINVTPLVHFPFPISKGTSFFPLYFF SPEVM/HFP*LPY*FGWALLSRF*/MSL L*LFFSKFPFFPSFFFF*RQFHSSPRLK CNGAISAHCNLCLP
9887	23788	A	9960	256	2	AWEEETAPLHSHCLGNQARPWNHRHAP\ P*LIVFVFSVETGFHHVAQAVLELLASS DPPTRFNLLSSWDYRGLSPQPMRSRKSQ EG
9888	23789	A	9961	269	3	HRQACGQVRSPIQCWACKIAQPSLQIV RSSLGK* I*SPYDPVIPLLVIYPRELKT \SLHTKTCT*RTAALFIIARRWKQLKC PSIDE
9889	23790	A	9962	268	324	SGTL SH/WIFS*VGIEITMWLKVPDQTK KISL RSAEAAIKYFLTQATASIIIRR LFNNRNLSEQSSITNTTNQYSSLIIIMAI AIKVGMAPFH*VPEVTQGSPVTSGLL L
9890	23791	A	9963	341	2	ITFLPTKIIIRQSNFKTGKRKTDSDLNR HFKREDTQMANKYM*FI*KMQI\KTTMR YYFISKRTTISRKTSNIQC*DTWSPGTF INCLLECKMVRLLWKMTWQFLTEVHIHL VY
9891	23792	A	9964	250	2	YHPVNLYFKYISPIDV*FGCFIYIFDYP LCSCFSLHPLVYLQ*L/LFFFFEAESH VARLECSGVVSAHCNLRPGSSDSPAS
9892	23793	A	9965	3	334	RTLRRHHIWLDPSFE*HLSCHLЛАIVN SAAINIPC/HSYV*THF*YS*MYRGRTA GSYAT/SMLNLLRNCSTLLHRNCTF*PF YH/WE*VPISPQSCQKLDFFILITAI EG
9893	23794	A	9966	179	352	NQE*TEILNRPMSNQIESVIKYLPTRKS HRPHRFTAELYQTY\ILLKLQVKVEGEG LL
9894	23795	A	9967	2	350	THPSINSFIHVFIHASMNSLIHLPTHSF SIYLFTKSFHHLFIHFFSFLFFLRPSFT

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						PVAIYSFIIHPTYSSIH*FIYPCVYSCI DEFTHSFTTHAFIQHLFIH*II/IFIYSF ISFLFF
9895	23796	A	9968	228	558	CHQLRQELAIFTSFVILQLFGSHLDVYM QAWAQRPDKYEDDNK*FIEIKKIIQFTL ISKRMK/YVGINLTR*VKDLHNENYKTL MKEIEEDTSEWKDISCSWNGRINSVKT
9896	23797	A	9969	196	2	DRKVFFRPLFIIFGLKKKFPLFWFFFPS /IRGRG*IFFFFFFFETESPSPRLECS ETISCHCTP
9897	23798	A	9970	245	1	TQCDMCVFIYTHIYISHICYMVYIYIHT RTHTGILFTPKEKNSNTCTCATKDNP/ CMTLC*/HKRRQTHTHTHTHTHTHTHT
9898	23799	A	9971	163	380	NHRQRKKNGR/HNGNKYKTVTKMINSNP PITRNNLNVNGLKTPIKRQKLSDSIKKQ YPSIYCL*KT/YLKYKD
9899	23800	A	9972	328	1	AKCGFLKKLNIELFNSIPGHSCKT*TQM FAAALYIISKKYKOPSCPSNDE*MNEIW HILTIGYSAVKKISWG/RWMNLENIARL SGQRGHILQDSVDMKSPE*AIPQ
9900	23801	A	9973	200	3	MASKCSSLERKSHR/SITHNQKLEMILKS EEGMSKAKIG*KLGFLCQ\VIHVVTAKG KFLKEIKSATP
9901	23802	A	9974	111	517	NLEQPLIKRTIANKPIKKINTTILITI NVNGLNTLTK/RQRWSD*IFKNQDPTMI /C*KKN/HCKYKDTNTLKIKG*KNIYDA NMLTQIKKKAGVAILI/DKIDFRA/TDI TRAKEGHFIMIKGSVHQEYVTILNVSAH AS
9902	23803	A	9975	342	3	FLATKKIFFFPVFPQQGPPPVLVAPFF WAFFGGGPPPKWAPKKFFGPRGPPFENFF F*GFFFFKTGGFFFRLFSKKVFFFFFF SETESCSVA\RLECSGTISAYCNLCLPG SR
9903	23804	A	9976	13	326	IILDHSNRPSSSTLKTPNAGKDVEQKQFL /LCCW\ECKIVNYLGR*L/WQFLTKLNL L*PYDPEILLGIYQKELKTCIHTVACT *MFIEALFVIAKT*KQPRYSSVG
9904	23805	A	9977	74	396	LAPRTQPLPCSPAPLRQCHTQSLLPPFL LRLIFYFFCFLKTRAHSVAQAGAQ*RDH GSLQT*TPTLACTPASA/VARTTGTHHH AWLIVFFL/IEKVSHSLVCDKT
9905	23806	A	9978	287	2	QPHNSSYTQIFTPKIIITKTPPPNLQNN TTPIKKKTQ*FP/PSTNP/SYPSTHPPT HLFIYPLIHISSPPPSPTHPRIHPPTYLS IHPSTHPSIHPPSR
9906	23807	A	9979	97	332	GNNDLFLYFFFLETGSHSVAQARVQWC DHSSL*PQPPGSSGPPPISTC/RLGLQAC MCHAWLIFNFCKGRLSLFGLLR
9907	23808	A	9980	168	2	STWLWDYWKFFFKTSKS/WPGTVALTY NPYTLGGQGRHIT*GQEFKTSLANTVKS
9908	23809	A	9981	267	1	LKRERR*RRAN/SKTSRRKEIIKIRAEI TATENRKPIEK/SNKTNNG*FFEKTDK/I DNPLERLRKKERD*ITKVRNGREDIL*N NDLIKVKKD
9909	23810	A	9982	230	412	CHIYLC/D*PIDGIV*CHIYIYFGHKHT HTYTHHTHTHTNTHPTC*VSKILLKKR TCSVCA

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9910	23811	A	9983	229	415	SYVFCHIRFCPLDSLNEKEIVASQVWC VSVSSTT*VAEAGGSLEPRSLRPDWASQRDPISKN
9911	23812	A	9984	2	288	RGYDSTSSAYTVGHFT*EDKATITRLSG KENVKHAGGETLRRLLDVYP*TQRIIDS VGNLN\SA\SAMM\GPPRLPKVLGLQAWTTMPGP*KYIHIFF
9912	23813	A	9985	246	3	FLLDYQYCALCCHCFLNFANCGHFNIL LGGVKHTKFPKYS*KFSVL/WLDAVAHS CNSTLSGLGWITRGQEFETSLANMVK
9913	23814	A	9986	342	1	FLNFGLTGFFPKGPPKPLGLRDLGALPLD PPQFLGVFKRGAFFLGTQ*FHF\LEGFK FWFWEPKAFFFFF/CCETISAHCNLCLP GSSDSAASASWIAGITGAHYARLSRRL RQQN
9914	23815	A	9987	330	1	NRPLNNLVMASKCSSERKGYTSFVLSRK /LRKMIKLSEESMLTVTTG*KLGLLCQT /VQVNTKEKFLMEIKSATPGNKGTVTKS NTLTADREKV*VIWIKNKTNHKIPLSQ
9915	23816	A	9988	209	2	IKGSHFPVLI*YRKIIIIIFGGVKGKGGF YSY\LF\FFFEGKYHSVTQLKCSGMILAP CNLCLPGS*DSPTS
9916	23817	A	9989	256	357	QHRWMNTEMLNYLC*IIYVHF/HTHTHT HTHTHTHTHTHTHT
9917	23818	A	9990	263	1	IQIRVFENSHLWPSYVHFPHGHSYLFCS L**AFFRH\G*FVLSVHFLKIFLNLKKI FFETG\SHSVAQACSGMISAHCNLCLLG SSDR
9918	23819	A	9991	3	368	SLDPRRSRLHLAKIVPPRSSLGDRARP LLKKLELFFETGFCCVAQPGVRWCSHGP LQPRIPG\SSNPLTSAT*VAG\IAGMCY HTQLQLA
9919	23820	A	9992	294	391	SGTVAHACNSSTLGGGGWIT*GQ/ESQ TSLTNM
9920	23821	A	9993	317	3	TDKELLRLDEQRKCFVEMEFSPGKHAMS NVDMTKDLEYSINLVDKAAVELERADSN FERSSTLKGMLSNSISCYKEIFLERKSQ LM*QIPLLLIM/FKKLPQPP*PSA
9921	23822	A	9994	193	395	IFWITCCSSLVLAASPCFTFMLWRQLLS LNLMNQ*DHSLSQSLIQSKSATLFNSVT AERGDESAEKKLEASRSWFMRFKERSCL HNIKVQGEAARTDR/AAAASYPENLR/V KDEGGYTK*RIFVVDIEAFCWKTMPSKT FIAREKSIPGFKVSKDRMTARCGRSCL
9922	23823	A	9995	82	420	SFLWKLCPRGAAAYVRCVSA\LLEDVQS LGYTGVRDPIEAEVSPFSELKRCRERTT AVFTAVRQGHLSLQK\FLLPFVQLCPAH RGGV*RQ*ALLCCGGLSPVQAPLPLCLP TQ
9923	23824	A	9996	376	1	CGRTDAPASTSPYAMTVRFLRPPQPCVL DGLHNCPARAPQEQNSLGEVDKRGPREQ TR\PATAAPPRLGSPSWICPGDW**CR NSLQGFSLAASVARGRDWALAGLPATVS ARFQEQQKMNTV
9924	23825	A	9997	495	982	VQKFLRPNLAPKKHQRKLAPNSLQGRLR SLPSPTVWCTMAPPTGVLSSLLLVTIA VCLWRMHWSQKHNW*ASFKKTHD*TGLA EP\SCARKQCSEGRTYSNAVISPNEETT

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						RIMRVSHTFPVVDCTAACCDLSSCDLAW /WFEGRCYLVSCPCKENCEPKKMG
9925	23826	A	9998	401	341	IASKCSTERV/SRSHTLKQKLERFKL*E KGM/SKNEIGQK*ALLYQ/VSQVVNAKE KFLKEIKVD/LHAQMIRK*NSLTADVK VLVVKIDQTL/PLGHHSVIQSKALTFLSS MKAQ*GEEAA*EKS
9926	23827	A	9999	30	393	DTTILKRLQLIIGAVATKHWSERKSLTS LNLNQKLGTIKLTEREGMLKAKKGQKRGL SCOTVGQVMN/SKEKFLKEIKHAIPGNT *MISK*NSL/IIADMEKVLVG/WSKVIF *DQTSHNIP*SQN
9927	23828	A	10000	133	1420	EQRRLPVTPGVASLQTLCCFLPRRGCSH G*ESAATHPPGPPELVLLLQGH*AGYLG /DFG/PRTATGSPG\PAGVQPGPCLVPQ LSRAAAAG*PDPT**GAIFSYHCKALRA TAARHCPPGC\WPG\PAGSPPGTSRPLS HPSSPSPPWTGVSSFLNNVLCP*ASDA QGHACYPGPVPALAGQGHDSAGGRGLDP GHWWQQAALHG/DQGPPGHQAHAGTQPS AOGLGC*ATHPEGEGG*VGYOGLPAG\GR SHPRFPIVTRPMGRSCPYATVRPGPGSQ GQTTPGLV\PRGEAGQNPGGAAPGLSCI QEVTGRWWW*GKKPLGHYPVPCGAVRCPSS *PHPDTMFKTGREGCLPTSPVGVTG QMS\EGSRPCEWTLITMSPWGE*SPRASC AMLHFCPGSRVGGYHGCPLHHMGPQST AGQAGQPHTLDIKAS
9928	23829	A	10001	1818	6682	IKFPEAEEEEIQEVLVLLFRVAEEKENP SRVGNSQREYENQVVLYSICNQLRYNN L/RHVKKDERGYYEELLNYSRDHMLYP YRLLDIMVKGSITPFSYYTGIMENIMN SGHNFATAADCLRLLGIGRNQYIDLMIQC RSSKKFFRRKTAGDLLPIKPVETIAIEAW WVVQAGYITEDDIKICTWPEKCATDKTV DSGPQLSGSLSDYNVVHSLYKKGFIYLDV PMSDDSCIAVAPLEGFVNMRVL/NFDYF ETLLYKIFVSVDEHTNVAELANVLEIDL SLVKNAVSMYCRLGFAHKKGQVINLDQL HSSWKNPINSRNLKSTLDP*KNILLSWGG GESRRPVQEASSATDTDTSQEDPADTA SVRSLSLSAGHTKHIAFLFDSTLTAFML MNLSPVQSTGEGEAQRYFDHALTLRNT IILFLRHNKDLVAQTAQPDQPNYGFPLDL LRCESSLGLDPATCSRVLNKNYTLLVSM APLTNEIRPVSSCTPQHIGPAIPEVSSV WFKLYIYHVTGGQGPPSLLLSKGTRLRKL PDIFQSY\DRLLITSSG\HDPGVVPTSH VLTMLNDALTHSAVLIQGHGLHGIGETV HVPFPDFETELQEDSC\NMGVHKALQIL RNRVDSLQHLCGYVTMLNASSQLANRKLS DASDERGKPDLASGSDV\NGSTESFEMV IEEATIDSATKQTSGATTEADWVPLELC FGIPPLFSSELNRKVYRKIAUTHGL\*EKR AFKNLILHSSRKLSLQVLFNVEHFQEGAS TLDIHTEPFSLLSQSSFADMGVPLPA KKFN/SLKIVSY
9929	23830	A	10002	439	1135	MAVDVFYNFVTKLVVTTGVLRLISFLAYKF

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						FSFPFLDSLs/LLSPRLECSGVIPASLQ PLLPGFKRFL/CLSLPSS*GYRRAPPC PALLYF*VETGFHHVGQAGLELLTSGKL TRLGLPKCWDYR
9930	23831	A	10003	216	572	LTLVSIFTAKQSVTLPPIICMLEMRKWLL NDTSAF/PII*KVLFPKIFFFFFF*KGV LFCPPGGREGAQFGLTKPSPSGLKEIFI, PNPPGGWVKQRVPPFAGYFCFFIKRRVS LLWRGLPLN
9931	23832	A	10004	3	354	YSNPDKDRKGETGINEKTNKMDLSSY TSVITLNF*ML*/D/KIN*KFKVSP*KK PTLCCLLETYFKYGIGGLKVKRWKKI*H ANTIGKKTAVAILITKQTSELS*YPNKE EHYILIKE
9932	23833	A	10005	187	455	ASHYSLGVRICITYIPGCIHPGEKSQKC NTCGKNSTQKPELVN/HR*LKGHRCMK* NEGGKTFTRVQSL/ACHKRVYTERKSYK C
9933	23834	A	10006	134	456	IWNPLGLPKCAWKQVTSIDLISPDAIFIN AAIHSLSFffffFETKFLFVPQVGGPWH NLN*LKLLPPKL\SDFLVA*VSKVVGIT GPPHHPGGLVIWGFKKGGSPMLPR
9934	23835	A	10007	210	451	CYTIQTTTEQPANDSMLGIKPHVSILTL NVNNLNTPPKRLGVADWIK/TQDPAFCC LOETSLTCNRTHRHKVKG*/WKKIYH
9935	23836	A	10008	169	462	YPCWVDMAKNTSYNKCWCQGCCEIRILPH CRWEYKMASPLWK/SQFLNK*NMELP*D LPIPLLDIDPKEWKTVQTKTCR/RMFI AALFPTSRs
9936	23837	A	10009	490	724	EMPP*FMEKNFLAPGG\VTPPGVNTTRV NPKTAFDPKRSSPFLEKSQKPGLIEGL THLKTLLNLNPLKDESGEIPVLF
9937	23838	A	10010	306	588	KQFIRAFIEMSSWLTPVIPVLWDTKADG SGIRDQPSQHGETPSLLKIEKLAGHGGA GL*/SOLLERLRQENHLNPGGGGCSEPR SCYCIAAWVTE
9938	23839	A	10011	473	53	IISLGQDSTDISTINIPRMAFKLSSKRKS HMFSLNQK/L/EMIRLS/EEAC*KPRS QKLGLLSQS*PSCESKFLKETKSATPVN TQMI*K*NSLITNK\LKEVLMVWIKDQI KHTISLRQSVT*CKALPLFNSMKAERGE ESAKC
9939	23840	A	10012	184	455	FWLSLIKKPLSSVTQKKINRET\ILLTT KKKKDCNFLEGGLLIGGSVCRLVYRHY ATLYSVFCVDSSKSERGSVDPTQVFET *DKCFDY
9940	23841	A	10013	203	453	KEELYISRERKSSTSLLNQSQK*LIK SEQAMPNANIGDRLKARPLSPNSHLIKT KQKFLKEV/KCATP
9941	23842	A	10014	237	483	TLIRYIIQLQGLFSYIPPFFFETESRSVA QAGVQW*DLGSLVPGSRHSPSSASQVAG TTGFHY/HAWLIFCLFCATGS
9942	23843	A	10015	157	875	DDPVRGRGEESAMPSGGRRNRSVSSSWV GSMAGITTIEAVKRKIQVQLHQADDAEE *AEHLQ*EAEGKRWAQEAEVASVNG RIQLVEEELDCAQECLATALQKLEEAGK AADESERTKVIIEWALKD/E/EKMELO EIQLKEAKHIADEADGKYEEVACKLVII

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						EGDMGCTEERELAESRC*EMDEQIRLM DQNLKCLSAAEKYSQKEA*CEKERKIL TDNLNKSPMR
9943	23844	A	10016	579	30	CGISTKKNKWMIKQNSSELSTCVHNQIT LHKIAMATQWG\KNSFFNKC/W/EN*V ST/CKKIKLSPSVTCTI*KQYLKWKYL NIKI*QTS*IS\NGGKYDIGLGTNFLLQ KTKNLMSFS*L*NQMHEQQIEKWDYIK LQNFCCTSKEKFGVVKMSPKKW/DEIFEN HIFDRS*FSQYINNV*NSTKSE
9944	23845	A	10017	44	228	EFVCRVRLW\CVVLASQLLWEAEAGG SLEPKSLRLQ*AMIM\DCTPPW
9945	23846	A	10018	471	40	PGEGRFQQTRFPFLPPWGPKGPFKK PKKKRKEMIQLS*KPRQANQ*LGLLCQ /TSQVVNAKEKFLKEIKNATPVNTQRVR KLNLSLIADIETVLVVGTEDQTSHNIPFG QSPIQINILAVFHSMKAEQSKEATEEKF EARS
9946	23847	A	10019	217	486	KKIS*PVYLSLYLSIYLSVCLSVYIYSTI YLSIYLSIYLCIYLSTIIYYYLSSIYLPV YLSINLLSI/CLSPIYLLTYHLSSYLLS YLPTYLP
9947	23848	A	10020	327	1245	TENQQGVLAALASKIRMMPTRLKWFLN IDYTKFCEAFHVFKRKKKINKNIKQL KMPLTKRILYLAFTTEYSTQ*QQNTH\FFL SADETHGKIE/HVLGPKTRHNKFKR
9948	23849	A	10021	329	490	GESPTDNHCRSPKSQVEKVIYTFFETES RSVTPAVG*WCNLGLSLQPPP\GTS
9949	23850	A	10022	3	394	YRVLEVLGMLNIRFVVLGCSSCGQAAQ FREGSRCTTACRHPAHTLHAAKMSRRKV SSAKCR*RETPKKRSARWSAKPAP\QSE TKPKKAAGKDKSSTSS\FSSSSLKAEEK GGKEQAEVADQETKDLSAE
9950	23851	A	10023	448	477	SQVFETSLAS*MSKNIL/WAGTGAHTCN PSTLRGQGGQIT*SQVFETSLAS
9951	23852	A	10024	198	455	SLKTNRREIPEDFHGQPCGKLVHSEKPR VRMGQTESKYASYLSFIKVILRRGGVRA S/TRNLIMLFQTIEQFCLWFPE*GTLDL KDW
9952	23853	A	10025	469	26	PPRAVQPPLPSSSLHTCPLCRTVFSAT TSRPDSLIPALQVSAKMSPVL*SSLILP SLGQGFPMASIAPRL/PHRSLRSCVVA AHRAEELDRHEAFLQCSLGQWPRNDLF SFFRDRVLLCHPGWSTAAS*S*LTAASNS GAQVMEFQ
9953	23854	A	10026	222	489	KKKKKKKKFCFIARVKSNGAISAPCNLC LSGSNYFPASTSLVSGNTGACPLARVN FY*N\FLVKMGFHHIGQESI
9954	23855	A	10027	313	2	QDWEISKLYSYCHS*VRRL/IFLKIRLS LYYILQHSLNCNIIG*LQFESCYIKLAG DKIAFRFLTLKTNHQLGLVAHAYNSTL GGRDGWIT*GQEFKPSSLANM
9955	23856	A	10028	49	388	TPKIRGVFPFKGWFLGVFGAFTPQKDI FYFPRTPMGTRLVSPGKKKKKEV*RVLY GLKKAKKIFVLKVFKFSHKRGFFGEIQFK KLFKW/HLKRNPPPKKKKR
9956	23857	A	10029	394	231	GROIASAQEFKTSWGNMAKLCLFI*RDR VSPCCPSWS*IPELKQSAICLSPKY*DY

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						RC/RNTTPGL*HLLFRCLLILPSYLFF CKSFKLLYMDI
9957	23858	A	10030	265	2	HDMNRGSDYFPASNGLAVPFKRQVFTIA SNFLEKSPPRLAFT* LQVD*ERKWAG\ P VAHTCNPSTLGGQGGWITRGQEFTSLA NMPKP
9958	23859	A	10031	235	413	KAGKLFFFTEITFKKGKKAGGGGSFLKP HLFGRPGGGNHVRVIL*KRGFYKMGRVV LKSLPCDSPPLASQKGGVSRKSPPPRPF CPF*RLFP*KKKAFLRFIPKKV**ALV/ SLPFIGEKTLFFF*DRALLCRPGWNA VAPSGLKLSSCLSLRS*DVKHVPPCLA MF*KFF/CRN
9959	23860	A	10032	167	424	GREFDLRMGHMVKPPLSFFFFPSETMS LSVTQAGVQW*DITALSASWTPVISDSP VSASRVAG\IGTTGVRHHTQLIFL
9960	23861	A	10033	252	3	VEGCLSSGVQDQEPEQHSETPSLQKKIFF \*LAGHGSMCL*SQLLGRLRWEDHSSPG G*SCSEP*SCHCSPA WATE*DPISKKK
9961	23862	A	10034	175	492	CPTCPFWIPLCSEQPVQLYMVVHTHTH THTHTHTHTHTHA/HLLFSLFSFLRQG LSLSPTLWRSGMI/CGSTQSQSPRLKQF CSPRYSRG*GWRMA*/DPGGRGCSE
9962	23863	A	10035	200	448	LYLHLVQLSPLDFPTPLFRVECPVSLSL CLSFS*FP*VCFFFVLVSLGLF*GRVLLC RPGWSAVVQSQLTAD/SDFPVLKHSSCL
9963	23864	A	10036	229	463	MILGISKISFLAITLANFPPTLNLFIF LDTGSCSVAQADVQWHNQGSL*/SELLG SSDPPTSAS
9964	23865	A	10037	164	422	GLSQLTDGHLLALLRVGGSEVGSE REEAEAGREREGERRDSRGG*REREREES GAREEREKKEKER/ERDREEK
9965	23866	A	10038	1	490	PNQTQNAVLMISFSICFVSVIFFKSEI YNGQPKFKSFFFF*DESCSVAQAGVQ/W CG/LQSQQPRPPG/SSNP\PTSASGVAG ST
9966	23867	A	10039	255	446	FFLRQSCYVAQARVQ/YAIHRCSHSTLQ LPALASSNPSALLAPRVAGTAGMQHHNQ L*YFFRIHS
9967	23868	A	10040	157	390	DHTCPPPSTADYRLS*FLYFLLLLFRRS LALPPMLECSGAISAHCCTLCVQETRETD AAHFKAARTIRAPHPAQLTIAFQVQTHV YQDGH/DGSWWCDLRTHPPRS
9968	23869	A	10041	290	30	TLKRKKEFSSVLCPRGYIVVLLLVHQFL FFQTGSCSVTQAGMQ/W/CDQSSLQP*T PG\SNNNPPVSASQVAGPTGMHHGFLHTE YESRGPP
9969	23870	A	10042	190	929	NHRYISYLTTRVKIKNFANKSWLESLSPT TLKHS*/W*CK*V*SLWKTWWHYLVNL\ KDDLTFDPAIPFLMIYLIEMCAQVHPEI YARMFIAVLFEIFKHQ\NNPNKLWYIHT RESYKTIKIKE
9970	23871	A	10043	457	724	HFGRRPRQVDCLSGVQDQPGQHGEVQSV LKL\KKLAGHGGAAHL*SQLWRLRHENH LNLLGGRGCSEPRWCHFTPANTTEQDSV* NNNNNNN
9971	23872	A	10044	111	429	KPDEDFTTGRENYYRPVFFTNTDANLSKIK CMYPCISVH/HVNMYGKIPMEMMFT*Y**

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						*LFLSFFFYEMESGSVPRLECSGVISAH CNLSLPASSNPPPGFPR
9972	23873	A	10045	30	220	LGVLVKKNSVFNKCYWDN*ISIWKRM\G LDPYLTPTHTKINFKWIKDLDNIITKTLC CSWMKTKA
9973	23874	A	10046	203	361	TYKLLVIFIVIDHF/LFSFLSFFFRRDRV SFLLPRLCECSGAISTHRLN*LPGSSD
9974	23875	A	10047	198	358	IQRKCFTFFFFFEV*SCFVAQAEVQYCG SPG\SSNLPLFSASEVSKTIGVVILPS
9975	23876	A	10048	270	272	RKNQRFFKIAKRKLNKMTTRISPLISIII LNVSGLNFPPLKRYR\LAETWKKKK\DPPI CCL/QKTHFAG/RDIYRLKIKGWKKIFH TNGSQ*QRSEFF
9976	23877	A	10050	256	1	GVTTNLYFWKNFLNPFLVKKCENCPIN KVFP*KPPLLKTLFFSKKKFCGV/HPT EKFFFFFFESLALSPLQLCNGTILAHCN LR
9977	23878	A	10051	112	359	SKVSEEPTENEVEHNLKV*SFLPLKQY SM**QKKNIHIH\ISFYKK*ELTWPGMV AHACNPGRGLTEAGRSPEGQEFETSLA
9978	23879	A	10052	346	2	RVSSYTLITLNRLNVALKRYRRLNGF FFLKKP*PN\ICCIQKTNLIYKSTYSLK VKGWKNIH\HANGLKKQAEVAI\LFISD KKDFKSKIVKRDKEGHYVMTKGSIQQ*D RTIL
9979	23880	A	10053	376	6	TRPSQHPDFILLNKCLLFEATPFLVICY SGHRKLRPVAPPIRGSKSQIIIPMPPAVL PRWHLCLSFRIPSSFF*LRLPRLCKSR /SAWGPVSPHLQPFLFFQAISFFFFL*D GILCHPGWSAVA
9980	23881	A	10054	102	347	FLSFFVDGKLCLEAKIWLAPAVFIVTR VLLLLSTL/RQVELRNLYLCNVHIFH LYFCIYL SAYILQTM SLY*HL*YHSNV
9981	23882	A	10055	251	51	ISLVNWLFILENMKLDPYLSPYTKINIR /WQ\DLNVKNGTTKVLEEN*GTIYVMVG WKRPILACQQPKS
9982	23883	A	10056	169	342	SQKQYSTCQNVCFCVLFLETRSHLV\TT LECSGAIMAYCRLDLPG*RHPPTSAS*V DG
9983	23884	A	10057	1	586	AAARPAQGKARPGLLLRRGRVVELRAGF LTAKGAFRRWLSQKHVKMSYPQSRCGC GGMGAAGPPSLTVHQELCGAYS PDGTT ALPLASWPRARPSAKAPAYDTAKLPAL IGCGSRRPPGVNPVGASSLKPGACVSEG GPTGTLESAGSRPPTPLPPPVC\CCPGPP ARADH*FCHVTPQCR*/PPPRPSP
9984	23885	A	10058	393	43	HARPGAECKERPAEGEAARADAFSGRHAC PHSLYCR\RGFFVHKLHLNKA/RLIKR RKADNIKWCQRCGAPGTLMHC*WDYETM GLLEQTVFSFEIRSHCAAQAGVQRNNHG SLQEF
9985	23886	A	10059	228	466	GLLHGPPIYDLEPEPVSTTPSLYHPPIVP *ASPLGPSAILTLPFHSPPA\PLFSP HSVIGSSGPRSLPT/SPTHILPTLPH
9986	23887	A	10060	293	9	DILQFYTFSPSIQ\CPVYILHL*YISLQR L*FHQKYLIGIYFIETWSCSVARLECSG RITPRCNLNFPGPPTYPPTSASGVAGITG VCDFLGLPWSR

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9987	23888	A	10061	199	428	TAYCRTLPLKSNPTISGSFFFFLETGP RSVP/*RAGG\DLMAHCSFDLPGSRDSP ASPRQVVGATGPCHHPWLIFE
9988	23889	A	10062	191	2281	LQTRGKLFKYKEKGICTKLHRSEIIIGK QWKEAVCPPTGQAQSQQGLDPKSREALR GGHGFPVGGVCGHQEL*LHSDGLKAVH PAGSEPSPDGGVQAAACQDAATGGTPO PMPEETARGC/TATASSREAGPGMDP/RE A/GPEAWQLGKARSSWGGSSSTSGGPAWV FIRDTPSWWGIPGTVSPPAGPRCPPPTR PQWEQLGSGRPG*MQTAAETNAAPRAG QERTPSRGPSADPGVSQHVLSHRRSCPK CERRSVPPNG\AGPTLWTELHPSDASVS ALTPL*GDVEVGPYG\CEGYIKPGRRTH QHNWLDDLDLRPAASRTCRKMLELPRV*F LLRLPELAETYSSTPPACAORPRGTGGG /PPQRCVLMMSGSHQGGAS*KGRDAPSILG SGLERPREGGPGWL /RQPSPHAVQPCK HMLCLGPAF*RGRGARGVPVPVRASHFP FHGAAWWPGDHMSQP*WQMLSRPARGHR PSWQVRRQCTVLGALKPGLPDLKCPGPT AFLPG*GVS/EENGQIPNVSTQLYLQNL PLPREQN*RRFPRLSSGGAGPGTG*CG GGGGHALSPTPSRRLRAHSKDNSWAQPL CCWMPAASGC\PGIGCNGVPPVAAS*QA AA*TPPWSEGSLPAG\*QPSAHRCVTRV PGGRIPHLLAQAVPPDDRAFPNCQASGQ LLGVHSRPSLSAAGCRQPLAVSGIGCNG VPPVAAS
9989	23890	A	10063	65	453	ISREFLFLETKSLYIMLKGSIQQEEDIIF VNITYLTNTGAPRY/IK*ILLELKRQIES DTVIPEDDNTPLSALNRPSRQK/VDLIC TIEQMDLIDIYRTFHPTASEYLFFSAHG SFSKKYYMLGHKICLETFLN
9990	23891	A	10064	100	466	LGILPLQSRSPGPGGOCPTPLFWVSLP LPVRGCFHLWCWLPSGALGSPCHTGL VCWHIPCF*CCGVSP*R\SCLEVHLYTH THTHTHTHTHTRFVLM*MRTPLRKKGKRQ VMRLCGGGGRA
9991	23892	A	10065	226	377	GLAGSPCISGSGVSFCSGCIY\RGHGIMF ICNDCKVFRCKSK*NCFKEHNP
9992	23893	A	10066	292	458	KVSSICLKMSFLFLFFFRTGSHCH*KVS SICLKMSFLFLFFFRTGSH/SSPRLECS GMIIAHCSLKLILDSSDLTASAS*VAG
9993	23894	A	10067	252	36	TGFNPLHFIIYYYYYYYYY\FESKSCSHAQ AGVQCCDHGSLSKPQP\PSSSHPPTSAP* VAGSRNAHQANSTAWPMVS
9994	23895	A	10068	56	481	GILKNCHNLMIKLERMRSCVLMGEQRK/ WIY*DESTPGEDTVNTVEITINDLEYFI NLVEKTVA/GVETVDSNFERGPTVGKM\ IVCYREIFHEKKSPSMQQL\YF*KFPQP LQPSAATTLVS*QPS\SKQDPLSARRLQ FTAGSD
9995	23896	A	10069	263	435	HFSFLSFFF*KTESHSVT/RVEGRGGIS VDCKLCRPGSRDSFASASRVPGTTKGISQ GRG
9996	23897	A	10070	116	474	RGAGAWGVSGRSSPPLSALPIQPPP HLS TPPPLETP/PPVLH*PLKDLGGWGALLA

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						Q*RLPG*HSPKKKKKKKAPRPPYK*GP PKTPVDPDGPFLDPPPLFGWPPP\VF PGERPPPL
9997	23898	A	10071	159	377	KSHMPLTLNQKLEMILKSEE/GLMSTAE IGQKL/GLLLPSNSQVVNAKEKFLKEMKS TSPGNT*TIIKWPGAVADA
9998	23899	A	10072	180	473	AIEIQQLSRPLCLWPSGRFPDAQVANIR VRVAV*GNPLR*VGPAEPGEQRSPWGF PSIS/WDISPTWSSSASPPGLSADCKFT CHYRCRALVCLDCCG
9999	23900	A	10073	98	440	GQLNLSGPYPENVGYTLPVLINPLAQ VIYSTIFAGTLTALSSH*FFT*VGLEI NMLAFIPVLTKK\INPRSTEEAIKYFLT QATASIILLIAILFNNILSGQKKKKGR PF
10000	23901	A	10074	358	404	PCLTYHLHNSNST*SLRLVSIMIEIVT SNLHRTVPHSYTPTQLSINLVMAIHL AGAWIISYPMSIKNALVHFPLQGSPTPL IPILVIIETISLLIQ\PRPLAVRLTGNI TAGHLLMHLIGSATLAISTINLASTLII FTILILLT
10001	23902	A	10076	3	419	KWRKKMWCLQKMEYYSS*KGKKLLSHVT IWMDPEEVMLS/EIS/SVTEGQILFNST YV
10002	23903	A	10077	335	414	DKSPF/D*RFLLPPNSNGFLVKMPPSVK RLPFFFFIFPFSSFFFETEERSVT\RLEC SGTGLAHCNLRPGSRDS
10003	23904	A	10078	279	1	KDTQLPFIQFFFETGSCSVPEAGVQWC HSSLQPPPP\GSSGSSPLSL*VAGTIGM LIFKIFSRNPLNFFFRLRWSLALSPDWS AVARSWFT
10004	23905	A	10079	397	3	KSSSLFQNHLWANSSTYSHLIPTLGYIL NHGNQFDPTL/RDKM*NFFCTIVCPHY ELPSLEQW/VSLGSLNYDTILPLDLFC RQGKWSIPIYQAQDFMTLYQNLTCQT/P QNPPPPPKESSKVVELDIIDDPH
10005	23906	A	10080	281	1	IIFLGEWGPFFPPQKKSFFPKIPQWVFFT PPYRKKIKFFFLPR*NWA/HPKIFFKRPP PFFFFFFFGFKENCFCILLPPKEHI TQAPAWGFAG
10006	23907	A	10081	207	35	QENRRC*RGRGES/GTLIHGWRECQTVQ PLWKTWVQQLLKRLNTEFPYDЛАИЛГЕ FH
10007	23908	A	10082	2	408	IAPLHSSLGDRARLRLKKKKKGKIRPL LALFFFKNQNPSFKKNSHSFYGA MEP\P PPHIPFFFFWKVQPPLF PFRGTL FEGP IGTCKLQTLGSPG*WDPPCPLPHQSPGR GGLIPGRKGEDPPSFRGLP PPHF
10008	23909	A	10083	195	2	ECKQRPQLEMVSFRRRSHEPFFFETGPR SVAQAGMQWH/DLSSLKPPAPG\SGDLP TSAS*VAGTI
10009	23910	A	10084	219	1	RLKIKLLKIIITTTIDSGICSFKSKL H/LKIQNWMWLKLAHAYNP STSGGRGQ RQ IT*GQEFTKTSLGNMV KP
10010	23911	A	10085	364	413	KKKGGEKGPLKKER*KTNGQFLVHTNF /RLPGLKYFF/CPPPSKWL RAPPPKP GDFFFFFFFFLVFL VETGFFHHVGQAGLE LLTS*PIPLGFPKCW DYRRE

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10011	23912	A	10086	200	3	INFILLLFIFVLLIFETGPCSIAQATVQWRDHGTLQPQPLGLKQAILP/ASAP*VPRTDVHHHARLN
10012	23913	A	10087	154	329	FSLSDFKTYYKAAGHGRGSCL*YQHFGKP\RRTDPLRPAVQDQPDQRGETPSLLKKKK
10013	23914	A	10088	157	390	NSSSSFFPPSCGAQ/KSEVKKSSGPHSSSSSG*RGE/CLPILLVSGGSWHFLAYGSLT PVSACVFT*PFSMSLCVYIQISVS
10014	23915	A	10089	305	1	KKKRAQSLSPGQKGGRGFSQPVTAGDRSF RPKIRKEALGLGQLGLTDLCRTFPPTAT G*TFFSSAPFPG\YPV*PTKKKNNTNLN *FTRIKIISRIFSGHEK
10015	23916	A	10090	329	2	RGFQPLGFWDPGPISNLGPPKNLLLK AEIMGYNCVPPFPFPGLPTTHFFFPR NPPF/CFPFTPSLGFSPNPPGFFFFFF FFLSRVSLCHLGWSAVA*SWLSAAS
10016	23917	A	10091	84	408	EKKGENKLFWGFLLGTLFIGGYRFKII FCLVGYFIFIYLFGEME/FSILLPLG/C NGTCVHHNLPLPGASGSPASTSGEGGI TGMRHRPRLY*IYLGRWSFALVARAVMQ WHVLGSPQPSAWCKRSCLNLRRGWYY RHAPAPPSSLNIQKIIILGFWLAPVY
10017	23918	A	10092	184	359	FQINSSVTRRSFVLAAGQAGVQWRDLGSP LLPPP/GSSDSPASAS*VAGITGLHVGL SHK
10018	23919	A	10093	298	386	KLCEK**ITPIRMATT*KKREGENS\KC W*GCGEIGTLVYCL*EYKMVQPLWKIVW QFLKILGIEL
10019	23920	A	10094	310	1	ICMNEMILYKQDFGRTIIIIRKIVIYFWI FN*FGH*IRIY*NLLRYKTCML*RG**I NLPQRSFKNLRLKI**W/WPGTVAHAYN PNTSGGRGGGRIT*DREFETS
10020	23921	A	10095	40	407	EHTHTTACEPGGI*IRPVDSMVLISWL* HGTICKMVITLGETGQKPGQGISLIIIF FFG\TQSLFVPRNGVHCRGPISAR*KLC LPGPPLSPT*AS*VAETTGACYCTWFEN NFFFLRLPLHCY
10021	23922	A	10096	189	2	PPFFFFNSNLFKKSFYEQGLALSPLKCR GIIIA/HCS/L*TPG/YK*SSCLSLP\S SWDDRCAPPV
10022	23923	A	10097	260	401	DHLRSGVQD*LQHQGETSSLLKVQKLDG RGGQLIP\RRLMHENHLN
10023	23924	A	10098	187	464	WYMTRCGSIGPSSAAHESHHPQQQLMN P\PSPPSSAAHESHHPQQQLMNPTIPLL SS*IPPSPPSSAAHESPGRVGRPEFTGGAH GYLHLSPP
10024	23925	A	10099	397	1	FFGGAPCPPPRRKGKTPPPRKLFPFF PKKPLPKKNC*NKNPLLGPKKKNRPP PGRFFKKKGFF*NPPKAPLTNFWEKKKKK \SPFFKGVFFPPGEPKKPPFFFFFF FFFPTRPPRVRPRVPRVPRV
10025	23926	A	10100	253	3	NAINRNKMQ*TKTSEWKVYADHNATIKQ KQKRKQCQL\WRGCGETETLVACWWEQ MEQAPVEN/W*HFLENIKIQLPYDPAI HE
10026	23927	A	10101	121	404	VLASVVSIFFFFFFWKGGLIFSPRLEGG G/LIIG*LKPPLSCLGPFSCLTLPPEGWE

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						LKPPPPDPGFFFFF*GKTGFPRGGQEGLNFLTWEPPLAL
10027	23928	A	10102	468	1829	IRDYTQNPDPAKGYFSCIFFEIEETTM SRKQNQKDSSGFIFDLSQSNTVIAQGGAF ENMKEKINAVRAIVPNKSNNEIILVLQH FDNCVDKTVQAFMEGSASEVLKEWTVTG KKKKKKKKKKPKPAAEPSNGIPDSSKSV S1QEEQSAPSSEKGGMNGYHVNGAINDT ESVDSLSEGLETLSIDARELEDPESAML DMLDRTGSMLQNGVSDFETKSLTMHSIH NSQQPRNAAKSLSRPTTETQFSNMGMED V/RPRHQ*KS*VPIFEKSVKDLQRCTVS LARYRVVVKEEMDASIKMKQAFAELET LINGSRKWALLAEMDKVKAEMEFLLSR QKKAELLKKMTHVAVQMSEQQLVELRAD IKHFVSERKYDEDLGRVARFTCDVETLK KSIDSFGQVSHPKNSYSTRSRCSSVTSV SLSRPSPDASAASSSTCASPPSHTSANKK NFAPGVY
10028	23929	A	10103	254	2	KKKDFPLTPLGFGGGLKIQLFFFHQKKKN FYFPP*IFPKIFFFFFFWFGTQSCPVT\\ RLECSDRIPAHYNLHLQSSSHSRASVSH E
10029	23930	A	10104	256	419	KVIELHTGR/CAVGQHVGRPRRVDCLS GIGDQPEQHGEPHLY*KNAQSSQAWW
10030	23931	A	10105	153	439	TTVTSCLCIYYTYIYYYFRLLSTHAYTHIY THIYV*KLTIKQPQAGPSEGFKKEF** RRW/WVGTVAHTCNPSTLRCQGGWMT*G QEFTESLANMVKL
10031	23932	A	10106	424	157	SSHGLRPRPWVDHLSPGVPDQPWQHGETP SL/LKLAGGACL*SQLIGRM/RLSSGGR GCSEP*SHHCIPVWETEQDPISKNKQTI FRMFKN
10032	23933	A	10107	213	3	NYKCPPTPNLNTLKALYFKKLILSPKA* AIKEKID*/IIKIKHFYASNIINRMKRO LTEWKKIFANHVSDKG
10033	23934	A	10108	300	1	TPKQRGKKGSPREKPFPVNLPGKTLF/Y EV*FMNPLK*QKKKNFQGFFFFFFLICGT VYHQFTSK*ERGVPGTVAHTCNPSTLGG RGGWIT*DQEFTSLG
10034	23935	A	10109	120	421	KKIKKKKNHNMIISIDAE*AFDKIQHR FMIKTLNKLGPPEGKHI/KIMKAIYGRGG QDGQLHTAKK/EPLPLRENKISGKP
10035	23936	A	10110	102	418	TLVCVCVCVCVCVCVSVLSVFLSLSLCLS QAGVQWCDHSSLQPRPSG\SGDSPTIAS VVGGITGVHCHIWPTFYFLFLIRLKSLM L***TSSEMALTKMGVHSHGLFN
10036	23937	A	10111	382	2	VNNATMPSKCSTEKSHMSLTSNQKLEM KLSEKGMLKAKIGLKLGLLC/QVSQVNN AKKKF*REI*NPTPVNIR/DMQKVLV/V KTEDQTSHNIPLNQILIONKSLTLFNSI KAERSEEAA*EKCEDSRG
10037	23938	A	10112	61	427	ENTIYQVQCSIKEEYLQRRTLKYASLFQ KHICGSLAFLHLL*PKLYHSRSNAESDW IQLFSVQPNVKEISKHKIGW*RGHACN /RQHFERPRHKDHRLLGVRDHPQCQHGET PSLLSLLKIH
10038	23939	A	10113	71	399	NVLGKEARSGVWEAVRGQISRVSIQMKW

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						KGLIKGEKLKMEKSQACIC1YFFFFETE TNFIQAQGGQGHDLGFMEPPSPG\ * SDS PA*APHEQNGL / TGMHHNPRVIFV
10039	23940	A	10114	362	1	SKKSWGSNSKGSKCHTSFLSYPTKEQKS YLSLFYKCNLQLSLTFKELLHDHFRPVCLP TIY* NKNWP / RDPLPLKPSFKTLML* NQT L / WPGVVAHACNPSILGGQGGWITRGQE LKTIKANTVK
10040	23941	A	10115	314	3	WRERRCGAHLMRCAASNMAHDKPSRMLNL * KPKMAT / RNTDHDNFW* GHGETEILNH YWWDYKIM* PLWKTI* QFPKMFNIKLPY VSYIQLLGIYPRNLKINIHTKT
10041	23942	A	10116	44	394	PGFQRVSQDGLDLLTS* SAHLGLPKCWD YRHEPLRPAGIYSYPAVLFLVLYTASN IT* MLMTPKPTSG / YSFLLSFRFSSFSY LRDISAYMSLSCLKLNVFKS KPIIFLSP LWLVL
10042	23943	A	10117	398	3	MESCCFMGIEFVLKEEVLEIGCRTM* IY LHY* SLHLMVVMVTSLLCVFYHN* TIF KKSSVFLYAGNQKL* I* ILKNYIYVMI P FTITSRNMKRNLT KDGKDMS TETYKTO LKEITD \ * NKWRDTTFMHQ
10043	23944	A	10118	104	386	KVPPWATCGVKMHRLAGHGGWRLWTRLP WRLRRDNRLSSGSRGA \ AAEILPLCHCT PTWVTEHDSITYKY* KKGAPCWRASS* C TLSGHALFFF
10044	23945	A	10119	258	401	YNYPFLTCVFMKEKIGAGMAAHACNPSTP GGRGG* \ TRGQHLETSPTNMV
10045	23946	A	10120	310	384	GVFPFLTFLYGGIKGGFPPP RFFLF* FA FLFFFF / ETGSHSVAQANC SGSVSAHRS FHLPGP GDPPTSAS * VTGTTGICHHS
10046	23947	A	10121	245	479	TSSLRKYI QKRFLYMLALEVLKICNTYF MNTERFPLKLFQFQS / FRIISI* FFPFL FPKIYHYFLRDRV* LCHPGWSAV
10047	23948	A	10122	268	469	NSVFWLGVVAHA / W* VNPSTLGGRRGGWI TRQGELETT PANILPP
10048	23949	A	10123	221	423	GQAGAVAHA CNPNALGRPRREDSL RPGV GDQPGQHSKTPSI / LKSDNF* KMGWLGP WAWLTPIIPALW
10049	23950	A	10124	73	183	AGGWALTNTVINPT \ PPSTPFTPCLSY SCTISTASA FRFPG \ STSTAVLTHVRIL KSTPDAPHPLKIPRARRNIQRDHTLSS NLFFYYNHQLNVTEELTYYDLT* INPTAT IHAIHTMPLLFLHNLCISI
10050	23951	A	10125	342	2	PNLGPCPPPRGTKGPFPSFHPSI \ IG PPNFFSF* RP* FF* MLKSLGP / SPTGP IPKFPPFGFKNYFSPP \ PKGPLLKPP RALFFFFFFNRHRVLL \ CPGWSPTAGLK RSSC
10051	23952	A	10126	85	442	KKVINIKCW* RVWRTGSLIHCSWG* KMM PHWRAVWQSFR / SLSMYLSYEPA LPLPG SYPRALRTTCVCTHSRCFSILLELPQA / W NH
10052	23953	A	10127	180	484	KSF FFSQSAQPIKVIPAP* NFHFFGVK RSSCLSFLRKWGP RWVPPPF FFFF FFL IFVEMRSHYAAQAGLKLASS \ VPPPSG IPRTLD* SYPD
10053	23954	A	10128	376	1	WSPGAQLLFISCLYYNLWSLHTGRTPAK

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						PP*GWTLQKTTPLSCPAP*LPPPPLPSPL QQIIDLKEKLVFTAPACSL/PHSPNSSPW PQRWRPSVS/P/PVAHPAAPRLPPPVC ARPLWLPEAPPLGIPPH
10054	23955	A	10129	140	454	CLIRSSINSVHNNIYIHSTPDRHLGCFQ FLVVTKNAAVSRLAYVF**I*IPTYDHI HTHTPAGYI\PRHGIAGSQLTNIFNFSS* LSSNSF\QVGCTSYFLFPSHI
10055	23956	A	10130	340	473	AGARHSVLRPRPPLAGSSCPSS/CGGHC VALGVSCPAGGCRAACVPGCCCLLCGLP SDVCVC/SVCWGGSMGSRLGGWAAPGF* GNSREGPGNCSSGRKAGLAGGGLGPWA EQAPDILCCGPGPHWLGAQVPLAPPL SPPCPLYGCLYSDRGDL
10056	23957	A	10131	280	2	DSSLALLPRLEYNGVNVAHCKLKSSWIRR SSHLSLPKHLDYRSMSH\LPGLEIF*YS YCK*CLLTSPYFEFLMNSLEDISSCFIP IRVMPKCRMK
10057	23958	A	10132	244	3	IISTDLISHSWTLYLISSLVYVFLKQHS LAVALPRLDLDCSGMIIAHC/KLQTPGLKR/ FL/CLSLPST*DYRHTPPNTRANFYYYF
10058	23959	A	10133	272	3	VGKPRVFPYRIAFNFGRVTSILGPHIKK YHFQCRRGGKHCF*KAPPFFFF\FNETG FCSPVRLECSGTIIALCSLNLOQSCNSP TSVSV
10059	23960	A	10134	217	3	FPRFRPLVSPALTELQF/HFLTRGL*K KKPFPLFFFSETESCSIA\RLWGSGM ISAHCNLCLPGSSRTRG
10060	23961	A	10135	229	3	KNDYLKCWQGCGRTEQMLGCWDIK/LI QP/LWKIIIWQFLLKLNHMLLCNPTLPLL GIYP*EMNVYVHTQTCICTDAW
10061	23962	A	10136	84	352	RREFKTGLATWQLVSTKYYKTTVRYHL TSTRMDIIGKGR*QVCW/RKC/GDKGTL LDC/WMRMLVQPIWKIV*VVKFCRK*KL NLFPFFFFPQ
10062	23963	A	10137	280	2	KCVVVPEERILREKSQHLGKIKQEGRIN AVVLIQPGQHGGETLSLQKI\QLAGHGGA PLRSQLHRRMRREDHLSPGVRSRSEP** LSLHWVTEQ
10063	23964	A	10138	2	386	HIQEKQLPNKDSTLNPyFLLISILKRD EKIQMPSKHMKRCSTSILVIREMQIKIRS HFPH*VGKILK SANIKRW*MCRKRG\TL ITCW*TYK*TYKLVKTF*RIILQHPLLK THQSYYPAIPHILKETQA
10064	23965	A	10139	229	1	TRS YHESLTILHTNHHLNCSPFPQAITP *SRFPYSNRA\WLGSVAHTYNPSTLGGR GRRNA*GQEFKTSLGNLPK
10065	23966	A	10140	261	429	LSHLFHV ALI*TGLVW/SFVFVFFETGS LPRLECSGVITAHCSDL LGLSGLPTSA F
10066	23967	A	10141	377	34	WVF GSSGPPPPGF KKFFS PPPPKNKNPR GPPPPPPIFFF FC KKG VSP LFL PPGGGP /HPFLS PPPPGV K PEN FFDPG GGGFP*T KIFS RPPP PGK QNFFF LKKKKKKKEHQ IKR
10067	23968	A	10142	208	424	FFS LFM QT FHI HIR FYFFLAGGGAGVD RVS/LLSPR LE CRDT ISVHCYIHLPGSK QFS CLS LLSN*NYRHAP

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=possible nucleotide insertion
10068	23969	A	10143	1	297	PTRSPQVSNLNHKSFISFYLFIDLLSVC LSVSVYFETSLTLLPRLECSGAITTHLS LLSS*GHRHAPPCQV\FFVETRFHNVSQ SGIELLSSSHLPTPA
10069	23970	A	10144	185	488	SGFPRGTELIGAVCVVCVCAVCVCIK LGYI*NHKRIYYI*LLYIYSTYYIFNLSS *LSVY\SYVNRSNM*DRSQSI*IFILPK LKTCLENTHTLKNTHEGG
10070	23971	A	10145	283	3	LGWPGRKADGSGKLTDYGRLDKLVSP\ I*SAISDMASTTKAVLQAQRDQYSVLDL AHAFHSIR\NQSQFSFIRDSPQYAFTLP SEEHLSNLDGQ
10071	23972	A	10146	146	380	CFLWDNFffffFTEKTGSCSIAQAGAGT Q/WVGIISYCSLKLGMGRDPPTSLSCVA GTTGMPHHAQVIYFFFIFL*RQGL
10072	23973	A	10147	275	3	IKGMLAKATG*KLGLLCQ/TSQVENAKE EFLKEIKSATPVNT/RMIRKRNCIAEM EKV*VTLIDQTGHNIPLSQSLPQSKCLT LFNSKKAER
10073	23974	A	10148	281	2	KIFLPQPQQEMVFQGFAPPGG*IFLVF* *KQPFPPLGRFVFK/LPGGIPFFFFFFF FFFFFETESHAI\T\RLECGTISAHCHL RLSGSSDPTPR
10074	23975	A	10149	413	139	SLRVWPIFGLLQANKKKFWILFLS/IR PLFFFSRERGGTPLFPPFFLRNPGKKS* PPG*PPPPLK1QFPKGKYFFTSRPAPFFP LFCQPPGKNLNYWGLGPFGPKIFPPPPL FFFFF*DRVSLCRSGWSKVARS*LTWGK AFFTWVS
10075	23976	A	10150	100	431	GPRLTDDHLRSGVNPNGQHGETSFLLI/ HNYSGG*GRKIANRLNPKGGGCSEPKSC HCTPSWGKKRNFVSKKKKKRE
10076	23977	A	10151	134	417	GLAAMPLVG/WGKRNP*PFG*GEKTGW GPHPGKIFLKKKKLFFFFF*KGGLSFPP GGRERAHFWLKKTPPSRKKEILPPPPPR RGGGGPPPPPFL
10077	23978	A	10152	403	2	LAFPILQEVPQCFCNLLHSLRMYSSSTGS KLFPLASQPQPHSLLYHLLARAPNILEE LQSPNTALLLKYL*EAALKKKS*HITS SL*KVDLSFFLETKPRSIARLKCSGTI SAHCSLRLLGPSNSCATASQVAG
10078	23979	A	10153	382	297	GLN*ESWSGEKGTL/LHCWECKFVQPL WKMV*RL
10079	23980	A	10154	209	15	SSPKF*FFFLSPKKIPLPFF*PIFFFFTK TP/HFFF/SFFFFVCVSGSHSVPRLECS GAITAHCSTS
10080	23981	A	10155	153	422	RTSGKNGNRGQIILVTMVTNWLFSSFFF PLKTGPHFVIQAGGQGRAHGSQ*IFG \SGDLLALVSLQAGTAGFHHAQLSFFF KKTGLF
10081	23982	A	10156	257	3	RRLQNSKDCCCLFFPLEAPRGATARCQPE LSCMRCLSA\LLGGVSQSGYMGVRDPHK EAV*PLAELKR*AGRSSAPFKAVRQGCL S
10082	23983	A	10157	37	386	DATRFRINSVGTAEGLLDRIEPNDLQ*Y INLVGTAVERPDRIESNFESSTVGKKLS NNIVCYRSFFCERESQLTQQTSMLYYFK KLPQLPQPSAITTLH/SRQDPPSARRLQ

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, / =possible nucleotide deletion, \ =possible nucleotide insertion
						LGQ
10083	23984	A	10158	407	272	HKGKCRERKRKKKEGGREKGQERRKERE/RERKKGRKREMKKVNRYSKCTQ**LLSN
10084	23985	A	10159	248	478	VKVVRHLLDPSVEDPWKKSLKGPLQP*/RL*IFFF*NSGLLCHPSWRAVAQSRTFGVSTSQAQAILPSPFLPSSWDR
10085	23986	A	10160	458	129	GFSVNRLEDEDLRQENLMPAV*DQPGQHSKTPISTKNMNPNAGHGVYP*SQLRTVRPEDHLY/SNKPCSYLCAPAWATETLSSLNAFSCCSNHGLSFQTTSFHRIIMF
10086	23987	A	10161	82	291	YSKTKSLFFAGHGGTCIYSQLFRRQVQRQEDHANPGV*GCS/DTMIMPMSHCTPAWAA**DPVSKKKKK
10087	23988	A	10162	6	409	LRINILPEPISLSPLTAPAVFMPWTNYS SCDTFSLASMTLLPLHFLSTSALPWSLFLAPSLFQISKHQLYLSPVLLTLSSCYFLNPCFRNHILMMNLGRPRQANYLRSGV*DQPGQRGETPSL/LKNTKITWPWW
10088	23989	A	10163	249	415	APPECSPPLLVLLLLLLFLRWEDHLGPGG*GCSEPKSYHCTS A伟VTR\GDPVS
10089	23990	A	10164	1	405	RSEWRLRQPERQSETVKKKKGFSSRGGGGGGGKIFGMLMEPSPSGLGQFFLFTPLEANGGYRPPPLGGPFFFFFKGGFPCLCGPGGFEFPALGTPPLLFPKGLENFRGGPTPPARFFF FWGPVFVFSPKN*NPPVFRGKNGKNRPPKKKKPGRG\WGPPRKFNPFGNKRGGVPRAGNSKPPGPQRGNPPFLKKKKKGPPKGCCR-PPFSRGVNKKNCPKPEGEGSINPKIFPPPPPREEKKKKPFFFFLTVSLCRSGWRNLHSL
10090	23991	A	10165	175	404	AIKMVWIQAVPSQCLHGVGFYLPNSVCVKTP*NKRHRQGVVAHGCNPSTLGGRRGW\RGQEFTS LTNMVKP
10091	23992	A	10166	317	2	PFKNSPILLNEMTNIHLEPTCNYVNVS PFLK*HKFLFF*EMECSVTLRECSVTTIAHCCLKLGSNPPTSASWAPGMIIIGMRHCPAPKVCASHASAHASAHAS
10092	23993	A	10167	325	2	KMGEKQGHFIKEEIRKANKHIERCSLLAIEEM*IKATVTI/RKHQTKC*QG*RES GSLVHG**KHKIVHPLWKILSVSYKTKH SIIIGYSSVLLGTVLVHSGSDAW
10093	23994	A	10168	245	3	GEPLFLFCPIKKPKVFFCPYFNQAVFFLETHRGFFEFLLF*KKKKKS/LGMVAHTYNPSTLGSRGQIA*AQEFTSLSNMAKPC
10094	23995	A	10169	164	1	MNKMSQYTFFPYKN*QWGG\SVAHPYNPTS LGQQAMQIT*AKEFETSLSNMAKPC
10095	23996	A	10170	214	419	LS*PPPPPFGFKKFNRLFYGKSKPGP/FMFVALFQKGPFYQNIPPPVLEPFPPTIILRVSSFFL*DGWLCHPGWNAVA*S QLTASSTSRRVH
10096	23997	A	10171	168	1	WTWWLFPGFSITNNYC SHFSSLHLAIW/LGTVAHACNPSTLGG*GARGQEFTS LT
10097	23998	A	10172	139	3	PAH/CES*PPGLKRSSVSLPSG*DYR/HTPPH\QLIFVFVVEMGFHQPA/SA/FP KC*DYRS/DHHKWPT*HLK/SFHFIKK*N*LKRYLACSRILWYLFCLIRCMV*NLD DLSILYLHLNKFQFLFIYLFEMES

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10098	23999	A	10173	253	2	FPLKICNTLPPQIFSTQRGLLSLPFTIF LLSLLILLRPFFFFF*TESHSVPECSGM SAHCSLRLPGSSDSCASAS\QVAGKTCA R
10099	24000	A	10174	300	3	GRAFFFKGLVKWVFLTPNPIPFLKKFL KRVFLAPSEKVFVFFKNWPP*LSFLIFG EKNFFFFFFSEMECSVA\RLECNMG ISAHCNICLPGSSDSP
10100	24001	A	10175	117	381	EILRYIVSIRRTNLKFOQQEELRVNIK NNLSSLGNMVRPRL\ECSGVITAPTAWS APGFK*SSHPSLPSSWDHRRAPLHLGDF FLEITRSHHVQAQGVIFNVYSKFLKK FKISPSPDYPYRNNIISQDFLAIGPTNMVPL QPYIVLCACRTKNNKIIDLDSEQSSRT
10101	24002	A	10176	194	412	TLKNLNLSLHCLSFVPTDLYQPERLSKP PRPAKKYKFLIL/WLGVVAAHACNPSTLG GRGGWIT*AHEFDINLTK
10102	24003	A	10177	100	339	VPVKSLLLCVCVCVLLL*RISDHLP TLYANLG*CFFSYLVLISYS\NSTYCILQRHL LAIQKQP/CSFLRQ\HLVGWLHKKKHTH THTHTHTHTHSNTHTHTHKSKDGTQ NTTEFLLK
10103	24004	A	10178	229	2	KEKYIKSKLHFEARHNGSHL*SQHFGRP RLMDCL\VQDQPGKCGENPYLQKNTKIS QAWLWLVPPVVPVYSHRASKTLS
10104	24005	A	10179	368	2	SGSSPSTSPQGRDPDLGLFSAKIVLGQL ATIPLPLCFLLKIFHPLTLPPLLLGG FNLSPOQQDSDISLPWFLCYRYGPTYKAF FYV*ASVPEKI\FFFFFF*DTVSLCHPG WTVAQSRLTA
10105	24006	A	10180	398	1	QNIIMLYTINTYNFICQLKKKTIQWG ENFFFNWK*CENWIFTCKRKNLHPYLIPYTK TNSKWISELN\KSLKVNRRGGNLHDFQF GNGFLGDTKSKTK\AKISKLEFIKIKNF CVLNDIICKVKRQLIEWKYLO
10106	24007	A	10181	252	419	GARFKGSNFTSAGGQGIIFFMGPPKLIS RPV*\HRGEGKTPGVTLNRLEEHPLFA
10107	24008	A	10182	101	380	FCWIYNSWLGIGLFFFRTLNILAMCGG SCL*SQYFGQRQADHLSPGVRDQPGQY GETPS/LTKISWAHHVPPVVPATQEAEV GGSLEPREVK
10108	24009	A	10183	2	377	PGQVDCFSSGQVQDQPDQYGEILFLLKQ KLGHGHH\IR*EDHLSLGGQGCKEPRLY HCTPANVTEQYLVSQKKKKKK
10109	24010	A	10184	140	3	DGVLLSLPRLECNGAISAHN\SPSCDS PASASQAGCCGTC*SQL
10110	24011	A	10185	364	3	SVCPPRLGGVSQSGDMGVRDPEEEAV*P LAELERCAGRSTAFFRAIR*AHLSLLK\ FTRNHPPHVPCPRVMSR*FGLLPFFQR CPAQREIWRSLAAVALRSCGGRQVR TCWQLCLHR
10111	24012	A	10186	2	249	SVRLNKNKENTQIRNKKGDITINLTEIKR IIKEYSEOLFANKLH\SLDEMNKFLER* NPLRPGAEAQRQLVS*RFWRATAIDHMRP
10112	24013	A	10187	270	2	PWAQRGCVFKTNQKIFFGFFEIPHLD*P CVFQRPPS\*F*VRLIFIGGGFKPFFFFF FEMKSCSVARLECSTISAHCNLRLPGSS DSPASA

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/515,126	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
10113	24014	A	10188	428	28	PIFDKG/E*GN*WGKKSI FNKWCWEKCI C/KKLRDSSLTSY/TRINLKWI KDLNVR TK/STKLLEENIDIV/IYDLGLGIGFLD MTLKARATK/AKIEKLDKIKIGNFYASK DPKKMKR*FIEFIEQGKIFTNHVSDDTS I
10114	24015	A	10189	85	243	DRVS/LLSPRLECSGMISAHCSFDLPG* SDPFTSVPKSSWNYRCPPARKLSFT
10115	24016	A	10190	96	440	LQSNHINTLNVNRLSSSMKRFRLSDEIF \KKHGPA CLC*EMYYKDKGTC TLKIG WKNIYHANANNKNT/GMVLLSGKIRLES N/TVIRVK EG*LVI/INGRLI/QEDLIL LFILNVYAP
10116	24017	A	10191	137	423	AKDDLDRQFSKEDIHMTNR YMKT C/SGRQLIRETQIKTTMRYPLTPLDLRKSKDKKS ***YEQKGT PAHC**ECKLVQPLQKII** TFPKLLKINL
10117	24018	A	10192	221	72	AKVK*VVVFFCFLFFF*DGVS/HVVVAQ ECGSAISAHCNLC LPGSSDSVRVG
10118	24019	A	10193	460	121	SDKTKYW*RCRAIKTLTHF*LKS KLVP LL*KTI*CYLA LK KI H I V F D S A I P L *DTY FR/E*FCICAPK TY S N M V I E A L F V P A N Q TSKKK NWK*LSCPQIVDNFLN I HLM KY LE
10119	24020	A	10194	393	2	ATMPSYQRLLL TAVHELESPE*MDQFLD TYNLPRFNQEEIENLN SPIMSNEIQSVI KCLPFGPNPGPNGFII E FYHTYKEE/LPI LL*LFQKIEG\ILPNSFHEVSITLIRK TDKD AT*ETHKPISL MNTDA
10120	24021	A	10195	3	353	EAAPMPVKKFQQLLEPSGGPGLSMSCLGD CNGYACFSVSLHQ SANQS IDQ/SIYQSA IHLLIY/VSIYI*SI\YLL*SLI*PMY VPIYPLSCLSIYLSFMPLSCLS FNNL SI TRHGS MCL
10121	24022	A	10196	118	395	DFNA GLLLPSYQVLSLYFCF*NGV\CHCT P/R LGDRP RL/PPKKKKKKTPPPP LGG SPPGGEPYT P R P G V G P P P P F E H P P R E N PGCFH PPPKA WP
10122	24023	A	10197	437	160	FGYPRVFPLP ALLKRGPGI LF WGP NKKN YSSP ARG SKI CFFKRGPP FFFFYFFF* QTESCFVAPGVQWCDHGS LQPQ PPG\S SGPP STS
10123	24024	A	10198	259	3	RQGNHVTHVYSSRLQLL SPPASLAVFI QKIYVNL CTYI H I V N LYA*MCICVCIC YTCI L\ICIYGLVAVAHTYNPTTLGAKLG GS
10124	24025	A	10199	1	416	IISAHCNLHF PSSWDYSRT P P Y PANFCI FSRDRVSPCWSGV*HHLEQHSKMLSKK* NKIDMHGGMCL*S*LLK/RAE*DVL RQE NCLNP GGRGC GE PG SRHCTPAWA T RAKT LSK AS YASSSSPKKKKKKSPS
10125	24026	A	10200	369	3	TAPPFFFFCRDGLRTSLI IFPSRATPYS LVTSGSFLPAGAGGRGLSLEIRVLDL VQ DGCP CSQAWAA ALGGPGWWAPFLCFFET ASCSVAQEGM Q*CNLGS LQPPSPG\SSD SPASVVLWTSK
10126	24027	A	10201	314	2	LHHMRPEV*FTP SKL GVTGYM VS NISYP WRCRAHK*SQVLVSLRH KHLFPLEMESG

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						SEVQL\DTNRCTISANCNFCLPGSSNSPT SAS\*EAGTTDSRQPDAWADAW
10127	24028	A	10202	68	413	KIGILLKTH\*PSIC\VSITNF\*YNDTGE LKVKG\*KNIYYANINQK\KAGMVMFVLD ETDFFRAKK\DYQGH\*IMIEVSVHKE/E/ LVILNLNYASNKRVTKYMK\*KDTDIKGEI DKSTTIVGDL
10128	24029	A	10203	351	1	PKFPPLNPAPWGTTIKIFFKKNAHNWFS PRKEKALQKIHKG/RLLAKEISFLGGF \*TDYKTNPDSQSIRTLGEKKKIRPGTV AYAYNPSTFGG\*GRWIT\*GQELKTSLAN MVGRV
10129	24030	A	10204	2	392	FLEGVLLLLPRLECNGAIPAHHNHLHLPSPRFKRLSCLSPLSSWDHRHAPTRPANFVFLVETGFHHVGQDGLDLLTL\*SPCLGLPKCWDYRH\DHHAQPSF
10130	24031	A	10205	264	2	PLSLSNLFPPIPLNSILKIFFFILK\*L\*IH GKLMKMYRKV/LV\*TSPSPSQC\*HLR\*V \*HNIQNKKLMLGAVAHASNPSTLGGRG GWIT
10131	24032	A	10206	281	2	ISPPLFFLFSPPKKIFFFSQKHIFLGPPLFYPPLFLFSPPP\PHFLWGFPRPVNPMPKIDPQTWAKNNDKGPNFPPPFILPPKKNIFFTKTYFFGPPPFLPPPPFFFSPPKKK\SYPFPLKKNSPNPPPS\*K\*AAISLP PPFTYFFFFFFFSFFLENTWKMADAW
10132	24033	A	10207	340	1	STKLVQKLGEHTQCWQGCEATGTLICRWECKLVQPLWK\SAWQILRQL\NFMHL PYNPNTIQLOGSYSRE\OHTCPYKDLYVA ALFTIAKNC\QAKFLSTGE\INKLWCIIHITE
10133	24034	A	10208	136	3	KNRGPPPRSGKFFPFLPLFFFFFF\DRV \YPSHPGWSAMVPSQLT
10134	24035	A	10209	327	2	INKKYYEQLYA\*KFDNLDEIYQFPGRYN LPKLTQEAKANNLRPVSLRETKSTINNL PKRKVPDPDGFTGELYQTFKEEITP\FS TEAKGILPNSFCETVIIIVRLFLLRQ
10135	24036	A	10210	89	485	EIVPLLRFPLVIFIASPTTFYTYGFVSEGKSQYKKREKLCDCDKTLEQSRSLLGMHSTCGIALHPKREGQMCTLACAFY\FFLKES HSAARAGVQWHNLSSLQLPP\PSSNS
10136	24037	A	10211	361	462	IQQIGSNTGNIPAMELALKRNSKNINRL AGWNGP\VFAC/PKNVLFYLHP\LFG\I\*IYQLKITF\NYEGMVP/FVFRFLFETRSSLSPRLECSGTITTHCSLELVGSINSS ISARAEFLQRGANL
10137	24038	A	10212	62	469	SLLWKLRRSSGASTSLRCLSA\LLGDVSQ SGYTGVRDPLEEAVCLLSELERGAGRRTT ALFRAVRQGRRLSLEKL\LLPFVQICPAPGGGIYR\GO\ALLSCGGLCPV\AS\*/M CLPC/EA\TRLLKPPPGS
10138	24039	A	10213	197	1	VVTQPNEWCVTNKDASFQQRCTKKIKT/WPGMVAYTCNPSTLGGRDGWIT\*GQQFK TSLANMVKPH
10139	24040	A	10214	31	213	HASLDEGFHHVGQDGLNLLTS\*STCLGL PKCWDRHEP/PAPNWKKFLSSKAFKR \*LGCY
10140	24041	A	10215	442	29	PTINPTMACKCLS KRKSHTSFTLNQKLE

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						TIKSEEGMLKAEAG*KLDHVH/QVSQLI VNAKEKFLKEIKSATSLNI*MIRKQKRF IVNME/KKVLMFWTEDQTSHNIPLSQSL IRKRP*LFNSLKAERSEEAPEKLEASSGG
10141	24042	A	10216	195	533	LVWFWLRLVTYGVAAKMSSGTTIIGRLSW GWRLHF\KMAHL*GYWWEASVPLHMKLS SCHGTG\SLRVKDPRERLRQKLQCFYDL VLEVTVWHFYCILFIRSKSLSPAHIQSRR
10142	24043	A	10217	274	494	CVLKGLPFALPWFFFFFF*DKVSPSPRLE CSVAI/SAHCSLNLLGSSDPPASASQLA GPPGLRR
10143	24044	A	10218	142	480	VTIKIYLPHDHTTTPRLRQGGSRLKEILV SY*QQKVETRPSHVIFFTVISTQFKKTV TTRSGAVAHTCNPSTLGGREGQI/T/RG QEFETSMTNPVK
10144	24045	A	10219	163	464	AVYFSFWRCEDLASLYFENSGKRDNK FVFLVLQAQGPWAWRQGEVHKHLLPCVYH FAFFVVLTQQPQSFF*DG/QSHSLAR/LE CGGVISAHCNLYLPGSSNS
10145	24046	A	10220	379	469	V*KVQM/WPGMVAHTCHPSTLGG*GGWT*T*DQEFEETSLADVAKPC
10146	24047	A	10221	211	473	VTWLLLFFSIFRASSLSTDVSYVIAFO FYFYLFIFYFLFIFETESCSV*AAGAQW CDLCSPQPPPGRS\SEEPSTLQMTSGSS NL
10147	24048	A	10222	142	394	GVCQSLLSLCQLGGTGVRDQLEEAVCP LAELEPCAWRTRLLLRICCSLSQQAGIF /RFC*SYIHICFPQPVLLSSEMGVLSIR P
10148	24049	A	10224	77	396	KRKTKKSFWTPSGFGLRPIPKKKFFNSRGKQGGFGRGGSRSRGGGSTSQRGGGY MGKVFGMGQ*NFTGDQGLAKGGFVFVFL GRTTIGIKGALKRLFA/NNEHDLR
10149	24050	A	10225	155	443	GQAREGTLKSQFPSPGWPPLPFGGV FSPKFFFFFFETR/CAVAQAGVQWCNI DSSNSCASSSS*IARITGAHHH\TELIFV F*ISPPSQ
10150	24051	A	10226	290	485	KRGEGPVQKKKKFFFFETESCTVAQAG VQWHNLSSL*PPPPG\SSDSPAEFPR
10151	24052	A	10227	228	424	KLYQNLDHTLFGFELSHYEEVH*KMLKG SSWEFVMHSS/VSNKCILICSACKKKKK KKKKKKKKKKKKK
10152	24053	A	10228	269	454	DLFAAASQGHQALLEELMATTLSLTHHT HTHTHTHTPWSLF*SR/SALSLVC
10153	24054	A	10229	255	1	FYIFSKFLYVWLNVSHLDSHICFCIQSV IISCFGVYYYYY\FF*RQSCSVVHTGV QWCDRSSMQPQLQGQNDPPTSASQVAGSA
10154	24055	A	10230	18	472	GPEEGTRRERDRERERETRDSERVER VRERER* /RQRERERERERER
10155	24056	A	10231	52	361	WRKNYYFQIKITVYLENTKDFIQKLHTK CW*G*KEIGRAIHCVWECKM/VIQPVWK R/VWQFLRKLNILLPHNPAVEELDIYPN ELKTHVCTKALYEAGRGSRL
10156	24057	A	10232	3	402	APRLPLGGWISSSPMGAMLN RATGIM GSFFFFFFLKRKSPLGPQGEGRGQNLG*G

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predict ed end nucle otide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
						NPGPRG*THFPG*TP*KAGNNGEGPPR GNFGFLKKKGVPQKGQGGSKP/RDPRGT PRLGPKGLE*RGGPPPPAPQK
10157	24058	A	10233	48	470	PGRFTTAGLGKQEPAAASGPRAAPRPAQT PLKREAARPSLRLHLPEGA*APRSSARSPLL TI PAASLRS PRRRTCRRLRHFGIITR PFQPGVRLPDSGPGLA/RWACAAVPAAS RALPALRRPL*RRPGHGAPSSKSHGHSP SP
10158	24059	A	10234	169	446	CPPGPAPSHLLLEDRDPQAGROSSFYAG WWDRWREKTLFLFLRQSLSLSPPTPFFF \FEAESHSVTHSGMPGVISAH*NRLPG SNNPPTSAS
10159	24060	A	10235	264	2	KLKPIFKMVFLKIMFMSYIMEVFFFIEL GSRSVTQAGVRWHLDLSLQP*PP\GSSD PPTSVSQVGKWHKTWEALAVSRDHATP RAKL
10160	24061	A	10236	306	3	SQDMVKSPKKFP*LV*GLTEI*KIRAL VFNKFFFFFFFFFFPETGSTGSCSVA\RLE CSGTIIAHCNLQLLGSSNPPASASRVIN SIKKL FANFIVSANPRPT
10161	24062	A	10237	20	469	QCGATPRRGDHLRSGV*DQPGQHGETPS LLKIQKLSRHDGH/CRRLSHKNGLNPGG RGCSELRSCHCTPAWATR\GNSVSKKK S
10162	24063	A	10238	313	3	TRPRPTQGPPHSGGRACLCIFSPHGPPQ TRLSTPVSPSPVRLGFQVLILSARHGFI,L CQHGMF\PSLFTMSNITLWPGAVAHTCN PNTLGGRRGGWIT*GQEFTQS
10163	24064	A	10239	274	49	KGNPFFFVETGSHSIAQDGVQWCNHSSL QP*PP\G\SSDPPTSASRVAGTTGVCPC EDKLSHILRRCYAQVFMLAG
10164	24065	A	10240	144	454	VCKIKIYIYLIVLLEDYIN*FVKSSL*LK S*K/LIQQMWAIIISLPECLNSVVCLGKV G*KRCSQQGTVAHTCNPSTLGGRRGGMIP R
10165	24066	A	10241	289	178	FNYSSIKNNNTDGWVWWCLLPVIPALWEV EAIESF/CSRDEIPLSCPVGSPVPKLKR FYCLNLP*CWDYRQEAPPHPAISIIFDA TVIELFS
10166	24067	A	10242	352	294	PPRTTKMMV*DQPGQHVEAVTLQKMQLVERGGKHPQSQLC/REDH*SMGGGGCSE PRP*PCTPAWVTERDHVSKIK*NKIK
10167	24068	A	10243	293	1	VSLCRESSNSFIWQCPVVSHILALCFQR EKKRLDLP/S*MVGK*EIPFLVPLLFLPHWPLLLMK/YM*IFFFGNRVSLCHPGWS AVAQSQLTAASVPRR
10168	24069	A	10244	218	3	LERHIPVRPIIICDYKWWWRF/HFLRPLHN*FLFSFFSFFFFFETGSYSVT\RLE CSGTIAHCNLCVHLLL
10169	24070	A	10245	185	1	KKQPQQTKNPLNNVKKEGKGQHFFFFLET*T*SRSAQAGVQWCDLGSLQPPPPG\SS DPPPS
10170	24071	A	10246	2	265	AHKKKPAKHIAPSTFLYGETEARRSMPK AAQLKCGRAGIILFVFKTESCSVAQDAVLWCNHGSLQP*PPG\SSDPADSACRVAR TTSA
10171	24072	A	10247	2	430	EAGGREALDGCGLTGRESGVQRRDSMG

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						CQGTAGRGTRAGKEGPWRPEHLSRRPPA SSVLLSWATHLAWVEGS*TGSLCDLEAP GPTLSPWCSWSPELLQLHV//HHHTHTHT HTHS/HPNTHTDTQSLCHQPSFSVSPRA RTVL
10172	24073	A	10248	201	16	TPPGGVFFLGF <del>FFF</del> FETESCCVAQA GVQWC <del>D</del> LGS <del>H</del> PPASRRPGNRSSI/AAA *GYHFK
10173	24074	A	10249	167	2	GFDPEGMLSYLEKEET/WPGTRAHTCN PSSLEG*GGWIT*GREFKTSLTNMEKP
10174	24075	A	10250	92	389	FQPGQHGEILS <del>L</del> YEIKKI*/ELAGCIDM CLWSY//LLRRLKQEDCSST*VQGCSEP* CLSCIPS <del>W</del> VTEQDPDSGRQI*KKKKISL GRRGGIFLFLKIWHVF <del>L</del>
10175	24076	A	10251	221	415	KKKKRGGRFKGSNFTSPGWRGN <del>N</del> IFFMGP PKLNSRAGV*QRRD/WEKPGGPQFNCFG SNPPFP <del>GG</del> KG
10176	24077	A	10252	94	383	GKLNR <del>C</del> GIWL <del>L</del> GR <del>C</del> RSPAVSNALWLHR VAPEEEAGEAWAGTLSLQLSCKSKITPN KIVY*KKNKT/WLGTVAHVCPNSTLGGR GGWII*GREFETSL
10177	24078	A	10253	249	2	YPTMIFKC <del>S</del> KRKSP <del>T</del> SLTLNQKLEM <del>M</del> LSEEGMSKAELS*KLGLLH/QVSQVVNA KEKFLKEIKSATPANTGMIRKRNGLIA
10178	24079	A	10254	132	414	NNTYFQGKIFILNSQVKGMLICCWECK *VEPLWKAVWRFLK\DLEQNSKEYKL*T WNQPRYP <del>P</del> AVVWD <del>I</del> KKMWYIYFMEYHA\AIKNEIMFFAA
10179	24080	A	10255	359	3	YSLRHNIEMRPVSNP <del>T</del> RASKC <del>S</del> HERRSV ISLT <del>L</del> NGKREI <del>I</del> QEASKE <del>G</del> TLKANPKA KLFVPVRQVNAKEKFLKEAKSAAPLN\RMIRKQNSLTADTEQV*VIWIEY*TSHS IPLSQSL
10180	24081	A	10256	283	2	SLQPWKLYVHVFLPKYATYPPFGTLPKT HFFHKILPSKAGSDLN <del>S</del> YAMTYSHRHI TIFFETESH <del>S</del> VT <del>R</del> LECSGAI\SAH*N <del>L</del> H LPGSSNSPATK
10181	24082	A	10257	216	386	PSKNPPPLIN <del>FFFF</del> FETDSCSFA*AGVQ WRNLSSLQT <del>PPP</del> \GSNNSCASAS/RIAG I
10182	24083	A	10258	263	1	FSQWLILPSPLSYSFLFLRQGFALLPRL ECSGEITA\PSSAS*VAEITGACHHAEF LN <del>F</del> VEMEFHHVVQAALKPLGSSEPTP ATK
10183	24084	A	10259	248	47	IPKSRVKRENRLNPGGKG <del>C</del> N*PRSP <del>PC</del> S PPWAKQNSLSKK/NKV <del>K</del> IYQNLHTETQ TVHGDIRGQEK
10184	24085	A	10260	159	2	KRDMS <del>L</del> KLEY*KKE/RIWPGAVA <del>ITY</del> S LSTLGGREWIT*GQEF <del>E</del> ISLT <del>N</del> MVK
10185	24086	A	10261	190	405	ASLMHM <del>F</del> MY <del>FFFF</del> FPKQ <del>I</del> FFFV <del>P</del> QAE <del>N</del> Q WGNLGKR <del>N</del> PP <del>P</del> G <del>L</del> RDF\PASPP <del>K</del> EAGF RGGPH\PGLFLVF*GE
10186	24087	A	10262	39	293	PSSSTSRIY <del>P</del> EDT <del>P</del> LITQKY <del>T</del> CKILFIV ALFIFPKH <del>W</del> KLCKCPHIG/E*I <del>K</del> LQCIY TWRYYYAVQKNEENLYQLMYNDYQ <del>E</del> ILV SD
10187	24088	A	10263	282	3	AFYNRFFLK <del>I</del> FFKRG <del>P</del> RGKEKKGGKKEK KKWGKKKKKKFFFSPGQI <del>FF</del> LG <del>G</del> VFFF

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						FLFFFEEAERSRVT*AGVQWCDQ\SSSQPRPPRLKPFQ
10188	24089	A	10264	196	376	KKGGGHI INFPHKGYKPGPEKKKFFFFF FFEMECSV A\RL*CSGMI/SQAHCNLCLPGSSN
10189	24090	A	10265	514	157	GLTLSFRLEYSGMMSL*P*LPG/FR*FS RLSLPSSWVFPMLMYVHYAQQSFCIFFV ETGIFHRVVQAGLKVLGLRQSAHGLPEC W\DYRCEPL*LTKLICFTYGLR*RSKPP FFVVDGIQLF
10190	24091	A	10266	57	378	RSRIW*DSVILCS*LVSV/VDQSYFY*V TEILEQIKLLGSKIMCFCILQLHFLCFL CGSFVGST\IFIFSRNIWLGTVAHACNP STLGGRGRWIT*DQEFECLASMVK
10191	24092	A	10267	1	212	LIQKDNTIYYIKEAL*IPNKHI/KKISS IVSHYKMQIKIMR/YHTRMAIIKRTDKC LYECRETRTLMHCV*GC
10192	24093	A	10268	3	399	MANKHIIKIFASLIRMEI*IRATMRE/H *FIPIKWLVLKSKRESNKCWQCGCRTGI VIHFQRECKIVLLL*KTV*QFLKKLNIR LGAVAHSCNPSTLGCRLPRVQDQPGQHG KTLSLLEIQKLAHGLHLSPS
10193	24094	A	10269	190	386	FSPFLPLVTILECDKAICRGKSFDFFL LGPSFYFFKLLL/FIFYF*ERVLLCGPG WSTVAQSWLTA
10194	24095	A	10270	166	327	KTNSKTAEVCPLSVITLNINGLNSPIKR QR*TDF*NPI\ICCLQETHFRFKGTN
10195	24096	A	10271	180	1	IFFLFEVETCSVA*AGVQWNDLGSQQPP PP\GSSDFQLIFAFLVETGY* IMVPSSS CRT
10196	24097	A	10272	273	3	FLGLFSGNPLKANKPVCHLTLPILQRIF FFFSEFHS\VAQAGVQWCDLGSLKPPP PG\SSDFPGRRR*Q*AMITPLHSSRGDR VRLRLKKK
10197	24098	A	10273	399	27	YHFVPTRMAITRRKNN*CW*TCGEIGNL VYCWWECK/LV*LLRKIVWQFLK/DVKQ NYHPVILLISIYRI*FDCLFLCKSHVEM *LISGVVRVGAWWEVIGSREWFLMSGFTI SSCHQDCEFSQDLIV
10198	24099	A	10274	275	462	KINLVLQLDFFFVEMESHESVTQAGVQWC HLSSPQPPP/GSSGDSRASDS*VAGIT SVHQHAGL
10199	24100	A	10275	2	379	RGPGRGRLGSGTCFHPGRGGEPIVYQHL F*FFGP\ PENYIILPGFGIISH/IVTY YSGKKEPFGYIGMA*AMISIGFLGFIV* AHIFTVGIDVDTRAYFTPYHTFEEPG YIISRRRRKTKGFLF
10200	24101	A	10276	2	407	FPSPSPSPFASVSLSLSFHGLPLPEHTW FIDGSPTKPNRHSQAKAGYAIVPSISII EATA/PAPFTTC*QAEELIALTRALTIAK GLCINIYTD/SHILHHHAVMG*K/GFLT TOGSSIIDVSLSIETLLKAFLLPKEAGA
10201	24102	A	10277	203	545	FLWRGOSLALLRLECSGSILL/AHCNL GPHRFKRFSLQPQPP*LSNW\DYRRLPP CPANFCTFSRDGFTTLGQAGLQLLTSSD LPTLASPKCW\DYRHEPLVHGLTFNRSF NFFF
10202	24103	A	10278	250	3	AKWFLEMKSTPGEDAANIEM/TKLDY

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						DINLVDEAVAGFGRIDSNFERSCTVVKM VSNSITCYRELFHHERKSRLMCQM*LSYF
10203	24104	A	10279	333	3	SLLLLQFSMNHTHVRVTFIDQFCVCNS YSTDWLFWPHLSPISLRTPYSLRYNIKIR PINHPTMAMASKCSSLERISLTLNQK \LETIKL/SEEGMSKAQIG*KLGLLCH
10204	24105	A	10280	251	3	ITSKVIDSNPTTSTITLNLNGLNTSF*R QRLL/DWASSPK*DSIICYLQEMNFKYK IFKKIGRRRIYYANISQKKVGVAVLTPDK V
10205	24106	A	10281	22	226	TKINSKGKELNVRAKTIKLLEENIDRN LCDLGLGNCFID*YCIL*TKINSKGKNE LNVRRAKTIKLLEENIDRNLCDLGLGNCF LDMDTPNAQTTKGR\IDKLDIFIKI*NFWL DT
10206	24107	A	10282	238	383	DAKRKVSSTEGDSEGVAHERRSAHLSAK PCPAEVE/AKPQKAAEKG*SSE
10207	24108	A	10283	127	377	RIPGGSALGKEIROCFGVKGQAEIGKIE MSQPTQEREVVEGIGSQKAAQVDHLRSG VQDQPGQYGETPTLLKIH*LAGHG/GRC L
10208	24109	A	10284	328	370	VGPGPFG*SSGRVSSCCPGWS\PSELK* SAHISLPKCWDYRCQPLRPATFFFKTAS HYVAQAKVQWCNYSSLQPGTLRLKCCIF KKIQVVQVV
10209	24110	A	10285	341	1	KVVCVLTAPLSGRFSVCLPFLGPPYFLQ HSDIEIKPINYPTVASKCSNERRSHTSL TLN\KLETIKLIEEGGMSKAETGRKLSL L/QSVSQVVAKEKFLKEIRSITPVNT* MI
10210	24111	A	10286	199	329	LFFSFLNCLSPHRTEESY*KEIKSAPPIT PGIPRK*TSLIAGKKNVFMDWKDQTNHNIP/LSQSKTITLFNSMRATEVEEAEEK L/ERGCFCMRFKERTHLHNIMKPGGVVA HTCPNTLGGQQGRQIT
10211	24112	A	10287	358	387	YTNALLLYV*DQPGHLMGKDSDLFNKWC* KNEYSHAKKKQNH\P*FSLYTKTNSKWS KDLNVRAKPIKILEKK
10212	24113	A	10288	111	373	SAQCQPDQHGKPTLRIQKLAGPDGAC L*SQLLR\*GCGEPRSRHCTPAWAT/EG KTPSQKKKK
10213	24114	A	10289	197	375	IRIGLCKFII*FLETKLHTVAKVECSSA ISAYGTLSLVDSDGPASAS/RVVGTTG
10214	24115	A	10290	118	371	QCLLMMSPGLKT*MTGRLRQEENRLNPGG GGCGEPRSCNCTPAWATK\GNSASKNKQT\KNKQQQQQN
10215	24116	A	10291	214	368	CGYHQKNKKTNPKNSKCWQGCIGTLM HYWKDHKQV/Q/PL*TIVQQFLKTRI
10216	24117	A	10292	2	376	PFPLIMAQRPTHLPVLSASSGTSLLMPST LLWLPWLYKAHAVPTVPLSKLFDHTKPY AVSKNNLGALSI*SY*VIPVPPRSRF/S FIRDKPTS
10217	24118	A	10293	1	379	NILHNLDFFKNTTLEPQSSRLQRAVIAP LHFSLGNIVRRCFKKKSGWAQWLTPVIS ALWEADVAGSLEFKSETTLGNMMRPCLN FKKKKKKAFLGAPGFFFFFMGGKILFGI AAPF*SSGRVSSCCPGWS\PFEALK-SGH ISLPKC*DYRCQPLRPATFFFKTASHYV

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						AQAKVQWCNYSSLQPGTLLRKCCIFKKI QVQD\I
10218	24119	A	10294	201	384	GEERLSVQCSAFK*LR*HINISLQTFF LRRESHSVA\RLECSGVISAHCNLCLPG SSDSPA
10219	24120	A	10295	161	400	VCVIESVKANHILVDEHALKSLSFHLSLL FGV\GVCVCVCVYMC/CVCIYVC
10220	24121	A	10296	1	433	GEGGGGCGSGWSGVETAGSRPAPGAEQDL LPAPALGRWQGLNSVCYPAWPQPQPNRRQP LALLCAAGLGPQQRLECSGMIMAHHSLD LPGSGDPPMSAG\SIAGTTGTCHHAW\E FHHAQGGLELLGPSDWPPPTVLGLQM*A TPPGH
10221	24122	A	10297	209	1	LTFELLYHHHTLYFF*ESGSCSVAQARM QCWLGLLQPKALG\SGDPASAS*DA* STGVDYYSWHTCI
10222	24123	A	10298	225	1	RPGMPLSALPCGTGHAPARQPHSAACSGP KCPWCQSPQPAVGWTV*VCPLPLSPCLC /FCVPQPWHGGPLPCPPV
10223	24124	A	10299	212	367	VTAGSGHMCYTWWECRLEQSL*KTVWRF LK*LKVELRFDPAVPLL/SIYPED
10224	24125	A	10300	97	406	LHRCTPAWVTERGCLKTQNQNNQHNV GEACSSRPFTTIC/EEKIHLVCALTEED *RLAAETTANTTDIPIGSAYRILIKKLK PSKLSTC/YVAKQLSPGQLQTK
10225	24126	A	10301	3	422	YRSSSKTFLIIIRRGFIPSSTFLLAHLST TLSTLSHFKGWVVKLFFFFFKKGFPFW PPGGGGRAKP*F/HGNPPPPG*KNFPAL PRQGGGKKG/GPPPPGQFWFFKKKGVSP WGGGAKTPELGNPPPQPPKGGGITGGPP
10226	24127	A	10302	330	1421	RTKGRPLLLALPVLLLLFLHLAFFSAPP GPSSLSSTEDLKWTLLSPAQSRSKLPQPS LHRAGVRDLQWQGRAGAELTAAC/WPAP PRPEAVLQLGLPC/QEGRLLLESLNGF ALVVAEGTIFYASATIVDYLGFHQTDV MHQNIYDYIHVDDRQDFCRQLHWAMDPP QVVFQPPPLETEGDDAILGRLRAQEWG TGTPTEYSAFLTRCFICRVRCLLDSTSG FLTMQFQGKLFQFLFGQKKKAPSGAMLPP RLSLFCIAAPVLLPSAAEMKMRSAALLRA KPRADTAATAD/SKMRSA*LTLESRLPN *FEIWDSAAPGTLPSLPFFGAFDGQHIF CIHTRALRGSTRTRQCIAAALEGASFRN HVEL
10227	24128	A	10303	172	383	KIENKVWQGYEEIETLVYCWWCKMVQL LWKTTWVVLKILKLGPP*\DSIIPLLGI NQGTEIRFCKRYSN
10228	24129	A	10304	205	2	NFYP\*KTDFFLVGSLFIYFE*ASHPIT \RLECSGTIVTHCSLDLLGSCNPPASAS HVSGTAGAHHCI
10229	24130	A	10305	423	30	LLEGKLTNRKDINTKTPSVRRLHOSPKV DRTAKMGKKQSRKSGNSKNQSAQPPPKE HSSSPAMEQSWMENDELREGFRQSS/M SKLKEEVVRVNGK*VKTREKRLAKSLTRI TNAEKYLKDLMELKTSVLRPL
10230	24131	A	10306	211	387	IFFFF\*IKACSVAQAGGQGRHLGSLQPP PPGLKQDSC/SPSRGVGTGMYHAQFI

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						FFGF
10231	24132	A	10307	229	382	ERAVVQPG*HGET/PSLKLL*KLSRCGG MCLYSKLLRRLR*EDHLNPRSWGC
10232	24133	A	10308	168	417	GSYCFFFVRRNLLIVKYMRSVHLLFIMLL YRGD*WYVTTQYNFCILQKQEKLHYRIA /HVRNPSSLRGGGG*IT*GREFKTSAN
10233	24134	A	10309	253	402	KGGGGGVKTPARGNPPPGPPKGGEKRGG PPPPTQKGFF/CFFFKKGTTRPPGGKTGE RAKPNEIAPGKKEFFLPKPPEKGEIKG /PRPPGQINF*FLKKTGFKKGGGGGSKP RPGGTTPPGPQRGGKNGGGGGGGGGPKKGF FGGKKKKNNPPr
10234	24135	A	10310	182	400	LHVTMIIFWLYLIKNMLLNFTYF/CYIF SVATSTFKIVCV/WLGAVAHICCPHTLG G*DGWIT*GQEFKTRLANM
10235	24136	A	10311	371	400	FIWGNI*ASNKHIIKKT\STSLAFRKIQV K\TTMRYLSPPTPIRMT/I/I*KSYSSK CW*GCEEIRSLIHCKMIQPI*KT/WQFP KIINQQLLYNPAlALLGNRTRG
10236	24137	A	10312	113	404	QRCGKIGTFTHCWWWEYKMVQPLWKTDWN LLORLNIELPCDLAIPLLNLYPREMKTS IYICT*MFIAALFII/AKWRQP/KCSSA DE/IGKMWHICIMK
10237	24138	A	10313	146	1	FLTQKFFFFFETEESRS*AVVQWLDLGS QPPSP\GSSSDSPASAF*VAG
10238	24139	A	10314	157	434	FFFSEIFFFPGVGFSPPPFIGGPGIFF FCPLKKKILPPPRGKKFFFKKGP/HPF FFFFFF*EGVSLLLPRLECNAILAYCK IHLPGSSDLPr
10239	24140	A	10315	277	2	FFFTAFFLGVPGVFPFFKPGPGFFF LGP*KKNFFPPPRGK/IKFFFLKGPPSF FFFFFF*EGVSLLLPRLECNAILAYCN LHLPGSSF
10240	24141	A	10316	1	388	KTITTHEVITECIWLKVLLLYFPNCMCIV VRMHICVCVCVHISI*MDHIVSYKCIHI \LCIY
10241	24142	A	10317	134	399	LGLPGGDTRGGGTIENPPFERALNSQNG GK\NPLLGPKTRPLGWLGCSTPKFWEKP RVRVVDLN*TTPCLEKRAPWLKAKKTPA FEIRI
10242	24143	A	10318	233	3	EFLFLSLICAICL*CALKQFSSCFFCLAL IELGSMGLLFH/SSLETFQPFFLQIFF /SFFPLFFGANYTYNKPFEYSLI
10243	24144	A	10319	221	8	CDQPKSPPLSGVQMGDILVVLVFFLFLF AF*R*GSHCVAQAGLELPGSSDP/PQAT SQVAGTTGMCTWLVF*F
10244	24145	A	10320	1	407	RSTPDPVYLGFSTGGCKTEKRAGCFFLW KLHTKGAPARQCPELSGMRC\R*PLGG V/SQSRYMAVKDSLEEAGCPLSELKRA GRYTGFLKGGRIDLHNLRLCPQTTLCP GALSQEDGSIYKPLTGAAGAFLSYM
10245	24146	A	10321	115	398	ADEELLLMNKQIKYLLEMESTPGKDDVN TVEMTKESEYI/NLKAVAGFERIDSNF ERLSAVGKML*NSITCYKEIFH/RKSQI MSQTSSLSSYFKLP
10246	24147	A	10322	137	454	FFSLYFQGFFFFFFLGEKFFFSPGGKGI CPKPPFGPPPPPGKGFSPPPPGKAKKK GPPPPP\GFLFF*KKPGGGFLGGFFFF

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						LGKIKFFSPAGGKGGPQKPPFP
10247	24148	A	10323	246	372	ISIKSYQLW\LGGVAYACNSSTLGGRK WIT\GQKFKTSMANM
10248	24149	A	10324	415	1	IWGAPRVFPPPP*NPPPEKNFWGPKK KKFPFFFFPG*KIFFFKGPPPLFFFFFF SETESCSVT\RLCGSGGISAHCNRLPA SSNSPPPSSLRMPSTPVI.RPHGDLLSPQ LSAAVLWSWPFLPSLLLPPDLDIFVQ
10249	24150	A	10325	3	559	GDGITGLSPTISKFLFFFESISLSPRL GSSGAIMAHCSLTSRREPPCRSINFFVS VITLVNNNLNTNGKIGRMDF*MM*YTIQ ICNLQNTHCRP/KDTNCFKMKRRKEIIH ANSNQKRAGVAILIPDKIDFKPKNVTER HRMLVRES/ISQEDVTIINTY
10250	24151	A	10326	24	387	NQGLGARNQKSQRVFLAGFFFFESSSCS VAQAGVHW*DHSV/PGSSAPPASATVV VGTGTVHNHPWLIF/VFFVETGSH
10251	24152	A	10327	145	396	CDYFGEMFSYLLNIYLCDDPAPIPLL PYVYENENTDSLKDMTDAHSSFIHNSPKL ETKCPGTDEWI*MTKKSDYCKHW*GYRV TGTLLYYEGERKIV*LLWGNV*LF\LLN IYLCDDPAIPLPYVPYE\MKTRIHSKT *PMPIAALFIIAPNWK/PKCPGTDEWIN TL*HTHAVQYHVAVER
10252	24153	A	10328	94	639	ASISSSIKWDNISFLVGLLGELENEIRNI CKAVNMKQALNWKLLLFIENNNVSA SSNNFKIFYAYYIAKAVLLIITEHITLS IVLILKKQNNTRAVTKCW\RGGREKETL IWLVG\EKLVQPLWRRVWRFLIKVKIE LPYDPT/ILLGIYSKERKSVYRK\NICT PMF\VAALFTTAKTWKH
10253	24154	A	10329	143	3	SAWFFFQDRVLL*/SPRLECTVSISNH CNLRPGSSKNYCLSLISIWR
10254	24155	A	10330	153	389	RQGLTLFPGLVSNFWLPVLSSHLGLPKC WGYCYHAWPS*CF*NRSI/WSGTVTHA YDPSTLGGQGKPI*GQEFEETSLA
10255	24156	A	10331	382	422	RYKLDL*KLNTELPYDPTVPLLGNYPKY *T*AF\SKTCT*MFIAAYSQPPKGRSKC SSPNE*INKMWPIYIMR/YYSAIK
10256	24157	A	10332	194	1	CKRQCNKEDRNI/CSK**NPTILF*TTK RKG/WLVAVAHACNLSTLGG*GGRAS*A QEFKTSRANM
10257	24158	A	10333	348	1	NSGQSWIMYPLKKGVGRVSPPDIVN SISMVWCGGRLFSNERFASLLTIKKLA GHGGTCLQSLPLGRLRREDRLSQGGQG/ C*GYSE*LCCRCIPAWAAEGDLWSWSPN SVAY
10258	24159	A	10334	388	2	IPGSPKRGPGGEGKKKTFHYLFLRAAPP LPRFIFFPPKNNPLKGGGGGFFFPPPPKL KTPRLRKKKKKENFCPWKKFFKKKQTPO RGRFFFFLRQSFAVAQAGVQWCSDLGS LQPSPP\G*SYHPARTRG
10259	24160	A	10335	3	396	LLRPPCSLRHNDIEIMPHDNPMIASKCS SKKKSCISLTSQKLDVIKLSGKGMLKA KTGQNL/GLGHLYRTVRHAVNVKECLK EIKNAALLNTQMTRK*NSLIADTEKM*V V*IOE*AS/HSMPLRQNLIQNK
10260	24161	A	10336	165	442	GQMEILLIARNGIILLHFNLSIYYRRLF

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/515,126	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine, C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
						FSIPRYLFIFTYLFYLFIYFESVAHSDAQVECSGTIMALT*KKNASLP/ASAPRAAGATG
10261	24162	A	10337	33	430	TGSTHASANFCVSLVWTQLISRSSGQGLARLQLRCLPCCILFFSFFSLVIYRLHSYLRLPWRRICLQVPSGC*QNSFPCNFRIQGSLLL*/MQQW
10262	24163	A	10338	284	3	SQHFGRPRWVVDHLRSGVRDQPGQHGETLSRETP\SSLKIQKLSGHGSACL*SQLFGRLRQEENCLNPRGGGCSEWRQHQCTPV*VTEQDSVPKKK
10263	24164	A	10339	414	2	ERAGPFSRKIFFSPPPLAKKVVKYPFPPTPRARAHKRPIFSRYVKKERGNSPDLFWPPFFPSLN*KQ*GPSLGLRFYPV/SWGIFPSKP*GFPGPFRPKVFCFLG/LPPGPFGGPFFFFFGDRVSLLCHSRWSAVAQSQLTAR
10264	24165	A	10340	211	422	ASLGNNGGRPSPSLAAALQFDL*LRAGII FALFKAAARQGDLSL*RLLLSS\VCLCPA PRGGAYRGRQAFLSWGGLHPDRASRLFC LPKQAWAMAGAPPALLPCSLISYCRASNQDSSGGIGPSEPSAGYKLLVPGFLLP AEK\RTIYGGVTRFFRGP
10265	24166	A	10341	116	432	SRQRMPSTYHVQSGDTKTGEKPCANGNKCGCSSILRSCLHRKRKRSF*SLKALVWC GGACLEAQQLRRLRQE AHLSQGVPGCNEL*PGYCTPAWATEP\DSVSKKK
10266	24167	A	10342	103	458	SLNVCVLTTLPSSCSPISLPLRGPPYSLRHRNIEIRPINNPMTASKCSSKRKS*MSLTLNQKLE\MINLHEECMLKAKTG*NLLHQLIVDQVNNAKKFLKKIKSAIPVNTQMVRKQN
10267	24168	A	10343	53	408	SFQQFCSVFSPSLWFYLLLVFDDGDVQMGFWCGYPFCLLVFLLTDKTLSCRSVGVP CRVRCQCA\LLGGASQLG\SRGSGVRDP LEEAVCLLSDLQLRAGRTTTLF*AVRQGHLSLQRLL
10268	24169	A	10344	265	421	NNFPSPPRGGGNPGPPPPPFRFFFILKNPGLPPF*VIYLL/YFTLTPSFCLWCYT ISVYGCGBVFFFSFFFFFEKKIFFFP RVEPKNRIPVYPKILFPG*NNFPPSPPRGGGNPGPPPPPFRFFFILKNPGL/HPF*KKGAKFPDLINPPWP
10269	24170	A	10345	207	420	WQKGCPVTMELGVVGPLYPCFLHLWIQPTSHRKYIHL/WLGMVVHTCNPNLGGOGGWIN*GQEIETS LTD
10270	24171	A	10346	115	3	APRGAVKKR/RPWMGAATHVCKPSTLGG RGG*IT*GQEY
10271	24172	A	10347	41	421	FTFVSVCVHFKGIFLFLSFFFETEVPGSPLGPKRGGGGNNSGPWNPPPGLRGSP PPPQRTGKGGPYPPPGNFFFKFFFRRKRGV/PPL*HPGGPQSFT*GTPPPGPPKF WGAQSGGPVWGNPLF
10272	24173	A	10348	228	1	SKQVKEKYDSFLHKIQKQAT*NRTFFRVTKKHVEITKK/WAGHWAHAYNASTLGGQGGWITLGQEFETSLANMVKP
10273	24174	A	10349	405	1	GGFLKRGPPFFFFLQRQGLSLLPRLECSGMTVAHCSPNILDSSNLSSLRSWDYSHQAQLIFLVSF*VLGSHSVAQAGVELLAS/P

SEQ ID NO: of nucleotide sequence	SEQ ID NO: of peptide sequence	M eth od	SEQ ID NO: in USSN 09/515,1 26	Predicted beginning nucleotide location corresponding to first amino acid residue of peptide sequence	Predicted end nucleotide location corresponding to last amino acid residue of peptide sequence	Amino acid sequence (A=Alanine C=Cysteine, D=Aspartic Acid, E=Glutamic Acid, F=Phenylalanine, G=Glycine, H=Histidine, I=Isoleucine, K=Lysine, L=Leucine, M=Methionine, N=Asparagine, P=Proline, Q=Glutamine, R=Arginine, S=Serine, T=Threonine, V=Valine, W=Tryptophan, Y=Tyrosine, X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
						KCWDRYRHEPL/WPSQSQNLNSFFLDGFS LLLSRLECNAATSAHCNRLLLGSS
10274	24175	A	10350	301	546	RHIFMNLPHFLNLVIIIFHCRGKTLFLDI SNPYLKKQVSSSKPNCK/HLKEI*LFLE AKDYWLGVVPHAYNPSTLGQQGRSITG
10275	24176	A	10351	873	1258	FCYCYFHLLHHLHHHRSPRLEPPPG AALPPVPEGRIIPLPCPSSGPRQTTGPG KGRHRPAPRTPAASAASLPARRTLPA A PW*PLSFQNITTGSA\PGGGNQPASGAG GNSRT
10276	24177	A	10352	184	576	GLSPLSHLKMAASSSEISEMKGVVEESPK VPGECPGHSEAEETGPPQVLAGVPDQPEA PQPGPNTTAAPVDSGPKAGLAPETTEP AG\PQKQPRPQTSA*AQEGNQRPTAAPK THAQETVSKPEVSKEATAD
10277	24178	A	10353	110	384	VPGSPRKTRSPQQMERVLAPKTAKKGP RPDGHRSRLQNCRDTRARIKWADSVERP PWAG\PVAHACNPNTLGGRGGWIT*GQK FKTSLVNM
10278	24179	A	10354	123	422	RKQIANDKSKLFIINKYLNVNELNSPIK /RERLAGWIRKEKDPSICH\*KTHLT\ KDTNSLKMEG*KKIYHANNY/QKKAGVA ILISDKIDFKFKKKVVREK
10279	24180	A	10355	36	426	PPERPQYSARVCVCVFYTERCRLAPKPE CRGAIIAHCLLNVLGSQ*SSNLRVWSS* DYTQLIFKLFVQTGSHCIAQAGFELL/S SKDPPTLA\FPKHWDYRH\DHHSW
10280	24181	A	10356	193	3	FQTRIFKISFFFKEFLFKKKFFFIL\* ESRSIAQAGVQWRDLGSLQPPP\GSSS PPASASLY
10281	24182	A	10357	205	377	SPVFQYPYYRLTIPYQKC*LATVCI*VY *FFKLILYPAILLNSIIIWINFTSDPL\* FSSHITG*LSLIKNVWVGPGMLAHA\*N PSTLGG\RGGWIT*GQEFTSLANMVKP
10282	24183	A	10358	51	376	LCPFPQLCHGDRTDMWCPEELQDRCS CRSTSMRVAKGTTPCFLKV\QNIYTV\*M FCRTFRKHGVVPLATRMLV\IYKNSGPV TLQGRGTTYLSCHHGKAGRVCRA\QHAA GVVVTKQRACI
10283	24184	A	10359	295	376	ASELTSQSPGSILFENQKKGRCIAFLPC\ KCNSEIILVHCWGCKM\WKIVW*FLKTL \RLELVYDPASPLLAIYPRCI
10284	24185	A	10360	451	1	CQDIKTIILRNEQEVLVIIPSVTKYKQVGK SFVSRRYIWLSCGCVLCYAFVTEASKTWHH FPYRSPGFWGRRSGGRQFDS\*PKSQADFR APQGPPTPEPEGAERREPEIAPPPTADP SPKPT\HSPPRGAPSAPPPLLGRAER GVG\PGQGRPRP
10285	24186	A	10361	2	776	FFFLRWSLALSPLRCGAI\SAHC\KLR\ AGSRHS\*PASASRVAGTTGARYHARLI/L /YLFVETGFH\HVSQDG\LNLLTS\*SACL GLPK\C\WIYRREP\PRPAYF\IFFLRRSL ALSPRLECVQWCDLRS\QAVPPG\LHHS PASASLVAGTTGAHHHTRLVLL\IYF\ FLRWSVTLSCRL\AGVQWHNLGSLQAP PPGFTPFSCLSLPSSWDYRCPP\CLANF LYF**RRGFTM\IARMV\IS\*PRDPPPSA SQSAHDLFIVGQ

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10286	24187	A	10362	188	365	CPQLHTQSNLINMDASQRYQFELKIQAL /WAGTVAHACNPSTLGSRGGWIT*GLEY ATSL
10287	24188	A	10363	146	1036	GWAVYQTLQAAWLGPRTESGVSFHGRFS LPHPPQPTLHAWPAPPLQPEPCVPLRE DPMPESW*LPSSIPAEGVSF*ECDFSR RMMGKGPVPTVAPPLGPAPEPFCVTAG CAPMHTPTHTQ\PPHCSIFLPKISFKSK HFY*LLFCKCLSSSVFSLPESILLLFIIV ESVCQPGERCLANMGWDGKGSGRRWAT KSQGVMDIAATQTTPA/VFSPV/PATSCP AGVSGGK
10288	24189	A	10364	229	1	PLENAKSIYWGKGRLLKNNARLFTVA*S WNQPQFSLMVWDWIKKK\MWRYMTTESCA AI*R/DEIVSCAGTWMELEAMY
10289	24190	A	10365	186	449	RFFFFFPKFFWVFGLKSPFFFFG/RLGI *EKDGFFFFFFFFFFPEMASGSVA\RLEC SGAVSAHCNLQFPGSGLPASAPRVA
10290	24191	A	10366	445	3	RVDNGVRGRYRGKGERGR*TRWGWGHP QRWDQDRSRERPRETGRERAAGRRRETE AAETGRRRRERGRSDRNRR/RGRPRERM IEAGRDAARRER*ARQESWTEKKTARQE EGDRD/RQGHQETRAHKWGWNND*D*GRQ AERSENRRMY
10291	24192	A	10367	1	491	NTAPFPTSLESAFVVVAVQDRVS/LLSP GPECRGAI\LTHCC/LRTPG/FKPISHL S/LPS/SWDYRHVPPLLDNLILCRDNVS QSLKLASSNPLTSAPST/YDYLRET PGPRASP*TQMOPCFMP/RS*SQP*TQIA/R*QSNWGSQ*VLNNRELAFTGMFFGQ RPKAFF
10292	24193	A	10368	572	40	LHSFRQHFSNTYPQCTPGTP*VTQSLAARPA GLPEPTSASGGAGAVTPPPRTD\PP SVRWSGKKGGLDPVLRGGAPRPS PANPAP APQGPAPRKGTCECVPTASKTPRPGRWE PAAPPFAHPGKDQLQPPSTLVKECPEARC PRALTGDLPSSGENRNGLSAFQGQRRPA QKSGENCEN
10293	24194	A	10370	36	517	PFLFSDIDFLFSFYFLSFFFF*KRGLIL PP/GPEGQGGNKG*WPLHPRG*REPPNL TPQTRGNKGNRQTGPVIFGILRKNGFPP FGQGGFKPPGLREPPGLALQRGGNNNGQN PYP/P/PGKFF*RTKRGEKSPQPPYNKP NKKFNPAPEMFSSFKEGRGPSSLN
10294	24195	A	10371	60	403	DVEQPKLRSYPTLKCCKPRSAILTICPWA LQYRSHGLIFGFWSGFLSFETECSVSQ AGMQWCDHGSLQT/PTDSTSQAQAIIDPP ASAP\QAAGTTGACHHTCLIFVFL*RWG LAKP
10295	24196	A	10372	358	33	DSLGVPGAPLLSPGVTPHKQWFFRPYTQ IKLGFFFQIIFGFKV*KAPFFFWGFGN LKKKGFFFFFSEMASGSVA\RLECS GAISAHCNLQFPGSSSLPTSAPRVA
10296	24197	A	10373	264	3	RQTSVSGSNDGKSWPPADIDTI\KYVIG NRЛИTTQQ*LIKLT SKQMITIHNTKGRT *SLILVSLIIIFIATTNLLGLLPHSFTPT THCI
10297	24198	A	10374	298	384	TLVI*KGVHTTPHHQQHAYPGPKFYML

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						HKAPLLHHSVSRDPS PFAOSSNCYNRSIK QEPVDPLTQAEPVPRDAGKMKGKTPLSEV SQNGGPS /HK*GQYSGDV
10298	24199	A	10375	84	518	IMKLQRQKSRSLLKIMRSKLQHTRAS/GTQLR/PMLGGNFIALN/AHIKKLGRTQINNLTSQQLKELEKQD/RNPKAGRQEIT\KI*AELKETET*KKEIQKIIYEFRV/WFLENINPKP\PASRLLIQRMIERNTIRNDKGNVTSAPPDV
10299	24200	A	10376	70	363	FHQKNLVPGLWVQLLGRRTLQSQHPPAPPPSSSPEVNVPSEVQAAD*LCCIFYDVKVRKCSTPQKKTRKRKKGCLF/CAPGQTR/CLC*KRGEKNLVGKT
10300	24201	A	10377	299	2	YPVAGRGNR*GCCGAHALGVGGAAMPLGATISSVSLTISSLCAFPRRGGLEPSLPAPHTPPPPE/P*ASSPSRGEWHLVPPCMQPGLPPPLPPRPLSPLV
10301	24202	A	10378	302	3	WPTVATTCSERCERKSHTSLT*NQKLEGTOQLSEEGMSKAEIGQKPGLCHQT/VQVVNAKKLLLKEIKNATPVNTQITRK\QNSLIA DT\EKV*VIQIEDQTSHV
10302	24203	A	10379	125	375	NEYVFLEKSLKLLAGRVGSCLLGRPRQVDHLSSGAQD*PGQRGKTPSLQNIQKLSRH GGMCP/RRRLRWEDHLS/SRGG*GCSETRST
10303	24204	A	10380	458	3	ITISTISCKATSFERAPRASRPPPDEWVSQAGPAPLRGWEN*GTRRRDDWPEASLK DPRSGEPEAPL/PLRLML*SRLLPPPLWRRRPPPPDSHTPSPGNGKSPRVPRTGS KDKRPEALPP*FAAGEPLEANVPPVQHGGSVRSRGSYLTAT
10304	24205	A	10381	327	2	LSAPKKFFFQKSFLGANFRSPFPGRPFTNRFSDLNVNPLTKK1YFSHKSSNPPTFFFFFETGSNSVT*SGVEWRNHNSLRPESPG\SGDRP*V*HTTGAPYHTWLV
10305	24206	A	10382	754	1	NTALETDTTFSGGGGGHQLCVRSRVSGGG*LIMPDLHNHPLQQTSGRNQRLOQGEVT DPSPGMSGGAQGTGPKAPPREPPSALRHSGSLQGQP*FAHLYCGTIPYPCYQTAPLPR APPPTPTGH*CPGEA\PDQDELPGVCGCSPWPRPGQAQAGRNKH*FSGQRSSRDITA CSPCSQSKQSPSRPPCVNDS/PGQGPGP KAPAGPPPAPLEASLGSVHCSP*VGVMT PTRPGHFLVPGKVTLEQAPGGGASGGPV P
10306	24207	A	10383	39	433	SHDQTYTEEELLFMDEQRKWFLLMESTP GEDAVNVVEITTKNLEYCINLV DSTVA/GVSNFERRSTVGQLMSNSIIVCYGKIF/R *KR/SQSMWQTSLLF\NKLSQPP*PSTP TILISQQPMSMWRQDPSEERL
10307	24208	A	10384	283	1	NVFSCKP TSSCLISPDSPDPRRF SKAD TYRNFMFPLRRHTHMHTHYMH THVHVC TQLCLHLRPH/ITHGLSL/TCAPPVL*R PSFKPLHPTPV
10308	24209	A	10385	12	471	SPPWWTHGFRYWEPTPPRFSVPHDALQ FHTALFRLTRRFQLLSSCINIS PHTCLP PCLGLCVGGPLEPAVCWAR/CPP*RGMV SGWKASPLG/CPPTILLPPC

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10309	24210	A	10386	287	1	SFCVRSRPAPTS GRT PFP APP FPA APP TPS TAEDGV VEG *G / PAPAANCSP HSSQRGSAAMG I PLPQAS / PPAP TAPP SP / SLP PPPA PMY
10310	24211	A	10387	336	3	LIEGKLTNRKD IRSKT ASV RHH HQSP KV DKPTKMG RQN QSRKAENS \ KIKSASSPPK ECSSSSPATEE SWMENDELREEGFR *LVI TNFSELKEK TGKL NPAA LVCG RSE DQTT
10311	24212	A	10388	15	470	APSPDAMGR \ FTEEDKATITSLRCKVN V EDAGGETLV RLQVV V PWI QRY FD SFGNL SSASA IMGNPKVKVHGK KELT SLVD AIK HLD DLKG TFAQL SELHCD K LHVD PENFK LLV NVL VTVLA I HFGK EFTPEV QAYL LHK MVT VVANS LR YK
10312	24213	A	10389	3	438	QTQREPTMVLSPADK TNVKA AWG KVGA H AGEYGA EA LER MF LAFF TT K TYF PHFD L SHG SAQV KG HG KK VAD AL NNVAH VDD M PNTL SDL ND L HAH KLL VP VN FK L NHC LLET LDG HLSAEFTP \ AVN ASL QFT AF EITWL T
10313	24214	A	10390	2	444	TMSF NTLAI CL DCLC STL QOPT RSIP GY P SSPL PGN PTPP MTPSSV P YMSP NQE VK SPFL PDLK PN LN LS LHSS PGS GPC DEL R LTFPV RDGV V / SGAL PP AA QPGC
10314	24215	A	10391	405	3	KMIL T CL AL PAQ HCP PSAC PQTM AQP PL PLS IKG AAS M SDK LPY KVAD IGL ATW GH K AL DIV EN / EMP GL MG M QELY SAS RPL K GACI AD CL QIT VET AIL IE TL FLS LGV QE QWSS C SIF ST QEH AVA VFA EAG MP
10315	24216	A	10392	248	5	R LNKV GGG HGN Y EH V NKL ET LQ E MY K FLDI YN LP NL SLEE E \ VNL NR PITS NK F E SVI KHF PT K KIS GLD GFT AE F LTNN
10316	24217	A	10393	262	3	LPR DRQ AGRS QGP VVP QAV GRARK MPP F ISY QV YSKN FF EIE ESC SVT QAG V QWR NI SSMH PPPP \ GSSD SP PAS AS QAP GIP GA H H A .
10317	24218	A	10394	287	410	ALK GSS RIL IML GAWL TPV IPA / LWEAK AGR S SE VR S
10318	24219	A	10395	175	1	GGREV DDE I PLV REST IF H I FFFF FET E SHS V A QAGG QW RDL G SLP S \ PPG \ SCH SPA
10319	24220	A	10396	661	963	STLIA FIVI STLF PLL DMTE IYFS LL DE IVDTL GEGAF GKV VECID HKAG GRHV AV KIVK NVD RYCE AAR SEI QV LEH LNT DPN ST FRC VQ \ MLEW FEHH
10320	24221	A	10397	1	268	PQ THREAT MGL STAD WTN V KAGW GK GG A HAGED GEA E ALER MF L SFP TT K TYF PHFD LSHG SAQD K GHG K KVAD AL TN \ AVA HV DMR NAL
10321	24222	A	10398	33	302	SRGATL IYV DNE NGE PGTRV VAK DGL KL ESGPS I KAL DGRS QV ST PR FG QT FD APP ALPKATRKA SGTV N RATE E SV \ KTK GHL VO EHP
10322	24223	A	10399	16	233	PTD YEF NTT TTY REC GPR RPE FST SLD L SQP CR AV YM \ VGE KND I P FEL RIV DLT GKS IL GF GE PKS QEG DR
10323	24224	A	10400	177	1	KLL D L GQ P QSP ALA CLEY SGAI AM \ C NJC LLG SSS NPP TSAS RIARI TGV HAA EP

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						YA
10324	24225	A	10401	185	419	HVNKDTLESHLVWKLKSALLGRKSESVT GPSCHPEPSDKTVEL/WQGAVAHACHLS TLGGQGGWITLAQEFTESLDNIV
10325	24226	A	10402	104	3	GIILIPKPGDRDTKKENF/RPLIPIDAK ILNKILAN
10326	24227	A	10403	3	344	SQVMAVAGPAPGAGARPRLDLQFLQRFL QILKVLVFPSSWSQNALMFLTLCC/LTLL EQFGNYQVGLIPNQYYGVLGNDLEGFK TLTFLAVMLIVLNSTVRSFPLSVSLVS SPV
10327	24228	A	10404	3	404	ARAQRGDLSATGRNWSPLPPAGLPATV VLRHSGSLSMAATCEISNIFSNSYFSAMYR S\EDYTLASVPAPAATFGADDLVLTLSNP QTSLLEGTEKANWMG\EQSFWPKTQGLD WISFQAEKNKYEASAIGFPRWDK
10328	24229	A	10405	254	443	NQLSSIMVMFKIRSFEEFDNDEPKVYG SGDKVAG\RLIVEVCEDTRVKAVRILAC GVAKELRM
10329	24230	A	10406	26	461	GEVARRSSCCGAMAGTALKRLMAEYKQLT LNPEGIVAGPMEENFFWEALIMGPE DTCFEFGVFPAILSFPILDYPLSPPKMRF TCEMFHPNIYPDGRVCISILHAPGD/DP HGLREQ\PERWSPVQSVEKILLSVVSML AEPNDES
10330	24231	A	10407	1	463	QQAAKMAENSGRAGKSSG/T/PARGRGC/C/PAEQVIAGFNRLRQEQRGLASKAAEL EMELNEHSLVIIDLKEVDETRKCYRMVG GVLVERTVKEVLPALENNKEQIQKIIET LTQQLQAKGKELNEFREKHINIRLMGEDE KPAAKENSEGAGAKASSP
10331	24232	A	10408	180	446	KKAAASVSAASGS HLSNSFAEPSRSNGS MVRHSSSPVRYPSDKPFLNSDLRRSPS KPTLGYPESNRAIFSL/KNLQD/KIR RLNL
10332	24233	A	10409	1	417	EAGLVTMEEIGILGEKAQDEIPALSVSR PQTGLSFLGPEPEDLEDLYSRF\KKLQQ ELEFLEVQEYYIKDEQKNLKKEFLHAQE EVKRIQSIPLVIGQFLEAVDQNTAIVGS TTGSNYYVRILSTIDRELLKPNAVALY
10333	24234	A	10410	305	53	LEAQPHAPPLLGHHLPCWRI PSHLGTCSR RPRAMRVQGSEEGVA/GQAPPLPWVHR GSLPLVRRRPAGKPTGGNAREEKGVEG
10334	24235	A	10411	419	2	NNSRKFGNGTIKLVEVEIYPLISESIPDKSELLLTPQDKKHAPLPSAVPNPSA/CP DLRPHTTPASPVS\PAKTVETRPSAPQG PLPGPVRRPRGRFSVRAASPQTSGRPGA PRPPGPALREATDAPRAATPPIAALAGHS
10335	24236	A	10412	74	322	MDEMAATTQISKDELDELIEAFAKVDLSS NGFICDYELHELFMEANMPLPGYKARETIQKLMQDRNTDGKIS\YDEFAYVSM
10336	24237	A	10415	1	415	PQTHREPTMVVASADKTNVMAAWGKVGA HAGEYGAEARLMFLTFPTTKTYFPHLD LSHGSAQVKGHGKVMADALTNAVAHVDD MPNALYALSDLNAHKLWLDP/VNFMLLS HCLLVTLVHLPEFTPVAHACLDKLL
10337	24238	A	10416	19	454	APSPNAMGHCTEEDKATITSIWGMVNVE

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						DAGRETLGRLLLVVYPWTQRFDFDSFGN\LLSSDAIMGNPKVKAHGKKVLTSLGYAIMHLDNLKGTFQAQLSELLCDKLHVDPENFKLLGNVLVTVLIAHFGLFTPEVQASWPKKMNAVA
10338	24239	A	10417	2	395	ALSSSQPSAPMHPFYTRAATMIGEIAAAVSFISKFRLRTKGLTSERQLQTFSQSLQE\LLAEHYKHHWFPEKPKCGSGYSMIGVNP\KMISLILQACIEGGI
10339	24240	A	10418	2	374	LSTPHAFGTGKGTFISLLFLFSSAYSRGVFRRAHKSEAAHRIKDLGEEDFTALVVIATAQHLQQWPFPEDH\VQLANDVTEFA TTCAADESSENCDQSLIHTLFGDILLCSRATLDESHCVQDGGRP
10340	24241	A	10419	48	347	DPKAQLPEPLRVLWQLTYAMAAGSR/TSSL/LAFALLCLPCFKAGPPNRPLSRLFDHAMLQAHRRTTAIDTYQEFEENLYPKD/QQYS/FLMTPTSSALDSIPTPS
10341	24242	A	10420	166	1	NFLKKPGPFQKFQRGLPLIILTFFFFFF\FETKPHVS\LECGGTVAHCNLC\LPV
10342	24243	A	10421	2	251	LGCTQHRSQELVAAATSHQTCIQASEDVKEI/FARARNGKYRPLKISIENGQLMIGSY/SSQPSDSWDNDYDSFVLP\LEDKQLCY
10343	24244	A	10422	251	1271	KEDLSPRAPMSGTQSTITDRFPLKKPIRHGSILNRESPTDKKQKVVERIASHD\DPDTDSSSKTKSSSEESRSEIYGLV\QRCVI\IQKDDNGFGLTVSGDNP\VFVQSVKEDGAAMRA\GVQTGDRIIKVNGTLVTHSNHLEVKLIKGSYVALTVQGRPPGSPQIPLADSEVEPSVIGHMSPIMTS\PHSPGASGNMERITSPVLMGEENN\VVHNQKVEILRKMLQKEQEROL\LOLQEDYNRTPAQRL\KEIQEAKKHIPQLQEQQLSKATGSAQDGAVVTP\SRPLGDT\TVSEAETDPGDV\LGRTDCSSGDA\SRPSSDNADSPKSGPKERIYLEENP\EEQQKG
10344	24245	A	10423	198	569	QRNMVGQLLVEP\RRLKPGF\INVKS\YNGDWEHQGF\FLVCF\FLRWSLALS\PRLECSGAISTHCNLCLPGFKQFSCLSLPSSWDYRHAAHCTQL\IFVFLVEMG\FHHVGQAGQGFFSLEKSLTII
10345	24246	A	10424	2	343	PQTQREPTMVLSPADGTNVYAAWGKVGAHAGEYGAEEALERMF\LSFPTT\KTYFPHFDLSHGS\AQVKGHG\N\KVS\DALTN\VAHVD\DM\PNAL\SA\LDL\HAH\KLL\VD\PNF\KLLS\HC
10346	24247	A	10425	31	342	RAAVMPREDRATWKS\NYFLKIIQLLDDYPKCFIVGADNEGS\KQM\QQI\RM\SLRGKAVVLMGKNTMMR\KAI\RGH\LENNPALEKLLPHIRGVNGFEITKEDL\TEIR
10347	24248	A	10426	196	2	KNLIIISQT\KKV\ICPNTLFLVFPKRVFFF\FFF\ETE\SR\VS\PRLECSA\S\ISA\HYNLCLPGL\SDSS
10348	24249	A	10427	1	405	R\LECWLEPPHGAGLQGLGWV\WSCSV\STGPTM\QALV\LLC\I\G\ALL\GHM\SCQN\PA\SP\PEEGY\PD\STR\AL\EDDED\PI\IFID\PE\NKLP\EA\GSNF\GYD\LY\RLRAIMS\PTSNV\LLP

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						PLMVATDLWDSLSEAQQLTESII
10349	24250	A	10428	223	361	EGPTEENMAAKVFES/IGKFLALAVAG/GPVNSALYNVDVGHRAVIFE
10350	24251	A	10430	3	359	LTQREPTMALSPGDMTNVKAANGKVCAG AGDYGAEEALERMFPLYFPTT\KTYFPHFD LSHGFAQVKGHGKKVVDAUTNAVAHVDD MPNALAALSIDLHAKLRLDPVNFKLLSH CLLVTLA
10351	24252	A	10431	273	1	NHKDGKKQSGKTEKSKNQSASPPPERS SSPATEQSWTENDFDEFREEGFI\RQSN YSEKEEIRTHGKEVKNLEKKLDDRLLTR ITNAQK
10352	24253	A	10432	211	3	SFLWKFCRLRGIPSHVSCQSA\LLLGGAS QLGYSGRDPLEEAVCLFSDLKLHAGRT TTLFNAVRQGHLSSLQ
10353	24254	A	10433	281	2	TNQEKKKGDPNPKIRSGKGDTTTDNTVTI IRDYYG/HYTNTKLN/LEEVDKFLDTY YLPRFNQREIENMNQPITSNEIESVIKS LQTKKSPGPMS
10354	24255	A	10434	219	1	SFLWKLRLRGAPGCMRCQSA\LLGGVSH LGYSGRDPLEEAVCPYSDNLCAERTT TLFKAVREGCLSLQKF
10355	24256	A	10435	133	2	FPKPPGNFFFFFETESHPV\T\RLECSGA ISAHCNLHLPGSSDSPA
10356	24257	A	10436	248	376	KGGVFFFFFFFETECSITQTGAQWHT \YGSLOPRPP
10357	24258	A	10437	250	1	KGTRKELTFIEQLLSAKYWAAGCMHYFR GSGKYSNGYPVFVFVIFSETESCS\VA QAGGQWCDLVSLQPPP\GSSDSPGASF
10358	24259	A	10438	354	2	KRGLKKNPFFNPRNMGEFLKLWGPNPKK IFKNCKIFKMGKKVLFYKNSKNLKR GKLNPFVIIFFFFFFFLLETGSYSIA \RLKCSNSGTNTAHCSPELPGSRDLPDS TTOVAG
10359	24260	A	10439	126	1	GMYDCVCLFCFAIKEGREREKERERK RERQREKER/ERERDKERKREERK
10360	24261	A	10440	29	347	IQKPTADTKFKKKLKYTTRENHLHNK EDREKGKKEEKKTKQHGSSKSLLINKTL NINGLKSPIKTHRVAE/WNKNKDPMLYC IQETPFTYKDTHRL/RIQGWKKIFH
10361	24262	A	10442	405	1	IFFPHPFFFKKSFRLSPQVEIQGIFLGP WKLFPPGFFNNFS/CPNLPNNLGFKGLPP RPSYFFRIFCKKKGF/H/RVYPEGFPFL ALGFFPLFPFKSWGFOQGDPPSWGPFFFF FFFFVLVAEGTLSEGCRLLRGRWKNLVP
10362	24263	A	10443	122	372	LYNDPISIYQVTLRYRRVFFFVLYSANWS LRWKANFLFFSFFKMASDPVAQAGVQWC DLDSLQPQPP\GL\SDTPTLASQVSETTG
10363	24264	A	10444	171	3	RHPTMAGSSEMFLGSGFGCRLTVFVLFE TESCSV\T/RECSGAISAHCYLSLPGSSN LP
10364	24265	A	10445	173	3	CMNVVCFISIFIFLKINFILETESHSVSQ AGVQW\LITVHCSLKLMGSSDPPSSASQV
10365	24266	A	10446	187	329	SFLWKFCRLGVPGHVRCQSA\LLGVASQ LGYSRVRNPLEEAVCPFSDL
10366	24267	A	10447	27	226	YSYPVYLLLHIFLCWKCSLYFIYFVFEM

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						ESCSFAQAGMKWCDLQPLPPG\SSDSIA PASQVAGVDAA
10367	24268	A	10448	119	296	SPIHYILVIIICFIHIVILLIIIFSEVGS HSVAPAGV\SGAIIAHCNHKLLGSSSP VSVS
10368	24269	A	10449	111	363	SLKKLVFFFSTYTHNFFFDPTLKNST RHSLYLSLSLFLSHSV\SRLECGGTII IAHCSDLNLPGSSDPTHMSMSQV\AGPTGSC
10369	24270	A	10450	218	1	QRFWGPGPNKVFKNLGSAFFLGRGKLFF LEIWGGFFFFFLVFFLRQSHSIAQAGVQ WCD\LNSLQPLPPRFK
10370	24271	A	10451	179	3	GPFKLTLLFMGKFALGREKCHFFFETE SCTVAPAGLQWRDLGSLQPPP\GSSDS PAS
10371	24272	A	10452	71	232	SSPLSDLLFNIVLEVLAKDIMQEVE/IK LILIGKDEVKWSLIVDKIILYVKNSKH
10372	24273	A	10453	153	3	ARGEELYFLEIGGGGGGGFLVFFFLRQSHS IAQAGVQWCD\LNSLQPLPPRFK
10373	24274	A	10454	338	221	MGFLHVGVQASLKLTSICP\LGLPKCWD YRHEPPRPVIPS
10374	24275	A	10455	214	366	YNKYKLIHYYSYLFFFIFIFF/NIIHYIF FILFFYLTSFIFLSYFFFFFITLF
10375	24276	A	10456	155	2	DRVSLLLPRLECNGAILAHCNLCLLGSR HS\PRVAGITVAHHHARLIFCIF
10376	24277	A	10457	870	1249	EGPRWADHLRPCVGQDHLC\QHGETPSL\ QKIQKLARRGGTC\LCQSQLLGRLSQEN CLNLGDGGCSEPRLHHCIPTWGDE\GDS PKKKKE
10377	24278	A	10458	222	404	KQRPGRAQWLTPVIPKLWEALGR\MLE ARTLRPAWAT
10378	24279	A	10459	122	362	LSEDQLNCYPQLRHHFIFLPVITRVQMS HYLCQQSCLFFF/SFFFFLYFEMESSSV T\RLECTGMISAHNSNLYLPGSSQSSG
10379	24280	A	10460	3	102	AASTLALSPLRECNSSAILAHCKLH/LPA FTPFSCL
10380	24281	A	10461	133	339	KLSKFQGSKKPEIKANSDDLALFYHNYITRQCFTSYSNFGRDRVSLLSPRLECNGV ITLAHCNL/RTPGFK
10381	24282	A	10462	3	193	ASNNMTELKSQIPIILTINVNGLNAPLKR HRVAGWINDPTICYLQETYFT/CKNNHR LTAK
10382	24283	A	10463	126	314	RLGGSTIKVQRDLSSDRSKPGRFLYTSN SSYVRKGKRNKACFTERVP/PVNDII
10383	24284	A	10464	1	332	KKNLFLSKDKCLSSLFRFSKSPPAILGPP RGWTPKTRFIGPKAFFFKKGSLSLGRKY HFGLKPVP/CPFPFLSKTRFLPGVPFFFF FFFETESHNSVA\RLECSG/AISAHCKLR L
10384	24285	A	10465	173	365	RFVCSTIKVLRDLSSDRSNPGRFLSLQI PP\LRKDKRNKAYFTK/RSPSPVNDIIST
10385	24286	A	10466	335	3	PFKKFYFKISTRALLEPVFGKKIRVPP QRSPPIWAPLFKRGPPNSFQVNGVPLFF FFFFVVRHGLALSGVECSGTRLECSGAI /STAHCILCHLDASHPPSTSASWVARPTG T
10386	24287	A	10467	818	1008	VHTDVLADILKSINNAEKRQT/RRCFLS \WLQGHCPFLTVMMQHGLCGVELGLPG

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						PGDFCKRPR
10387	24288	A	10468	111	1	MVSFGRPRQADHKV\GVRDQPGQHGETPSLLKNIRI
10388	24289	A	10469	204	1	LWGPILKIFCQILKTICEEGNFRGPTFFIFFFEAMESQSVTQARMQWCDSLSQLPLPPGS\SNSRASAS
10389	24290	A	10470	190	330	ERTKKQDLSICCLQVTHFTFKDSQRILKVKKGWKK\IFHTNKNQKRINT
10390	24291	A	10471	162	2	IKGPKRAPPANKGRAAFFFFFFFETESC SCLQAAVQWHDLSSPQPPTP\GSSDS
10391	24292	A	10472	120	3	SWGFFFFFF\EVESYSVAQVGVQWCDLG SLQAPHVMILVK
10392	24293	A	10473	298	1	RRALPCPANFLYFYFLSLLLFFETEFHSA\VAQAGVRWHELGSLQTTPPG\SSDSPASGEYSANYTGEYSANYTGEYSANYTGEYSVNYTGEYSVNYTGEY
10393	24294	A	10474	1	380	AVTGRAGSMVAPR\PLRRRLVLFYQGKLR SMAGNFQWQSSHYLQRILDKHDLLNERQK DLKVLSSEEEYWKLQRFFTAKVIQALCEHL KLRQPGIATATAYFKRFYARHSLKSIDPVLMAPTCVCLASTAN
10394	24295	A	10475	289	2	TQGFPPINNSFYALYPKQKIPFFSDKLF RVKGFKGPVPHYGVKDFKNKDGVFFFIF FEMASGSVAQAGVQWRNLGSLQPP\PG SSSLTTSAVRVAS
10395	24296	A	10476	138	402	ITGRAPPKPFLPKRGYLSGGLTNIGFSFSFFETRSRSVTQAGVQWRNLGSRSWLEST/SPDSSNS/PAPASRVAAIT
10396	24297	A	10477	2	336	ARETNDDTQTTRLLPANNTRSDPYISITLTINVNGLNTPIKR\KRVASWINKOGLM GCCLQETHLSSHEHTNDTHKLKIKTWRKIYQANGQKKARVV/ILISDKTDFKP
10397	24298	A	10478	51	250	RKVSFLFKWCWNTLFICKK\LSLDTYRF AKINF EWITD LNVREKT/IKLLKGNIKE NICDLGLGKDF
10398	24299	A	10479	216	2	GFTRKALSGFFKTGWFWFPNFSKLFKK KNFSERFFFFFFFEMESHSVT\RLECSGPISAHCNLHLPGSSLV
10399	24300	A	10480	191	3	FSTDGNVNCLVKYISIVIYIYIYFFFFLIFF FEMKSCS/VSPRLECN GALSAHCKLCLPGSCHSPARA
10400	24301	A	10481	135	768	LGGOVLSCASQPVSFLPFLFFLISFLCLLIAFLSACFASTFSCV LGSPETSFS PCLHPPKVLSSHP\PPCSR P/CPQPPKG/PPLPKHACPP
10401	24302	A	10482	126	333	MVVGQRYCVMCFVI\VLCLFL LV/WVVWFLW/CSVYIVVWYGYAVVLFIFFFFFFS LLCFAVCLFWVLLDRF
10402	24303	A	10483	240	2	ATEKNMGLGT SVRGLSGSNPSYGRVRER IGGGVCLWSQILLRG C\LRWEDHLGLGG GGCSEPRSSHCTPTWVTEQDPV LV
10403	24304	A	10484	136	2	NRPSYIFSFFFETESHVAQAGVLWHDL SSLQPLPP\GSSDS PARA
10404	24305	A	10485	161	328	EKNFKPYGSCRHFYLFIYFETE SRSVA\RLECSGTISAHCNLRLPGSSN/SPAS
10405	24306	A	10486	193	347	IILFSFLLIYFETECSVAQAGVQWHD HGSLRSRAPG\SYNAPALDSQGTE
10406	24307	A	10487	114	2	GAVVQSEVQWRDGSGLQAPPNG\SRHSP



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						YYRNLVVDKAAAGFERIDSNFESSSTVAK ILSNICIVC/Y/REILHEGKSRPMWQTSLSYFKELPQTTQHSAIITLTSPRA
10428	24329	A	10509	325	1	ECAKEMNAETKRNIAIDATETQRIIRDC YEHYNKMenLEAMDKFLLDTHNLPRLNHE EIEINLNEPIMSNETETV/I/NSLPSKKNSGSEGFTAEFYQRYKTPPLILKLFKK
10429	24330	A	10510	126	14	DSSGQVQWLKPPIIPV/LWEPEAGRSPEVRSSRPACPTW
10430	24331	A	10511	435	769	PFKFPPLSHACDGGSFLFCRLRLECSGVIT\AHCKPQLPG/SQSDFPASTSQELGP/TGACHYTRLICCREEV\HVAQAGLELLCPKDPPTSASQHARDYRH\GHPAQL
10431	24332	A	10512	147	412	RFVCSTIKVLRLDLSSDRSNPGRFLSTNSSSLV/EKDKRNKAYFTK/RPSPVNE
10432	24333	A	10513	251	466	QTCPTGSPASLLELFNSIATQWELVRSLLAGNALKDEND\SAVKMLASLIMSYKAA AAEDYKADCPPRNPGP
10433	24334	A	10514	286	1	SFLRKFCRLGVPSRVRKCQSA\LLGGASQ LGYSGVRYPLEAVCPFSHLHLHAGRTT TLFKAVRQEHLSSLQRILLPLVGRVGRPN DSRCDRVIGH
10434	24335	A	10515	28	428	RFVCSTIKVLRLDLSSDRSNPGRFLSTNSSSLV/EKDKRNKAYFTK/RPSPVNDIIST
10435	24336	A	10516	263	2	IKKPADSEASAGALILDFFPASQTVRNSFL LLTSHSVCYFCYSSPNGLRQQQLKIIIF FFLFRQSCSV\SRLECSGMILAHCNLCPLPGSSN
10436	24337	A	10517	62	292	PATLFGSVILPPTNSINAFSGSDSKSAHK/CEMLGTENFNFFTCHTHIIAEHSNST HTHTHTHTQTHTHTHTPLLYFE
10437	24338	A	10518	172	2	RGKIKFFPLEKGKNLVWWITALFFFFFE TDSHSV\TRLKCSGTILYHCSLCLPGSSDF
10438	24339	A	10519	42	194	ILVETF\CLRFVSLLENLVKMRFLKLKKKKKKKKKKKKKKKKKKKKKKKKKKKKKKI
10439	24340	A	10520	120	1	IAFAKRWPPIKFFFPPFFFFETVFHS\VAQ AGVQWCDLGSP
10440	24341	A	10521	202	375	SFLWKLHLSGVPGHVRCQSALTGG\ASQ LSYSGVTDTLEEAVCPFSIDLKLRAGRRTT TL
10441	24342	A	10522	272	402	PKIFYVTKKAWNYYPYTITEYTCSE/IR KFFJHIETKYEDNKGSN
10442	24343	A	10523	147	439	LILYVNYIISRKSTVYDSRHPCTYYLIPE KNCYKYHCNFLT/SSSIPPTPSTPSR ASPKKKKKKKKKKKKKKKKKKKKKKKKARGG
10443	24344	A	10524	7	415	RFVCSTIKVLRLDLSSDRSNPGRFLSTNSSSLV/EKDKRNKAYFTK/RPSPVNDIIST
10444	24345	A	10525	321	442	TSFSFLFFF/LETEFHSAV\RLECRGTT LVHCNLCCLPGSSNS
10445	24346	A	10526	477	3	IEGKLPNRKDIHTKNPSVCRHHQRPKVD KTTKMGKKQSRKTGNNSKNQSASPPPKER SSSPAMEQSWTEKDFDKLREEGFRGSIY SKL/REIIRTNKGKEVKNFEKELDEWITR ITNAKKSLKDLMEALKAEAQELRDECTSR AASANCVAVPQAFDRSHGVQ

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10446	24347	A	10527	265	411	RFVCSTIKVLRDLSSDRSNPGRCLSTSN S/SPVRKDKNKAYFTK/RPSPRN
10447	24348	A	10528	81	390	RFVCSTIKVLRDLSSDRSNPGRVLSTSN SSLY/EKDKRNKAYFTK/RPSPVNID
10448	24349	A	10529	253	23	RIFLFYFHSFLRQGLARAEQPHNHSSL QPPPPG/SGDPPASASRAARTTSAYHII PLFFFRTSYCVAQAKIIMLSSL
10449	24350	A	10530	10	398	RFVCSTIKVLLDLSSNRNSNPGRFLSTSN SSLY/EKDKRNKAYFTK/RPSP
10450	24351	A	10531	289	423	RFVCSTS KVL RDLS DRSSPGRFLSTSN SSL/QRKDKRNKAYFTK/RPSP
10451	24352	A	10532	152	401	PHCSIHQSQRVIQANVHKGHQRQTYGSVI PHILPLHVLKKTFSLRDFHFVSVLKKNL VLTCLHLFL/GVRTPRNDPFVSMMLIFT
10452	24353	A	10533	2	515	LDRISLLLPLRKCSGPVSAHRNLYL/G FKRCFCSLGLPSSWDYRRASPRVAKFVFL VDTGFHHVGQAGLKLTTSSDPPSLTY/P QCWDYRREPHLAAF
10453	24354	A	10534	469	566	PTKNTKISREWWCVPV/IWEAEARESLE PGKQL
10454	24355	A	10535	354	47	KPKNLPGGGGPPFYSSFSKGKKIPLPWK AKVPINQILPLPPHPGGKKTPFPKKKK KKERKKKKMATVQKGM/PHKYYHGKTGS YNVIQHAVGNAVTNRTGRS
10455	24356	A	10536	1	409	TPKKRFFPKPKPGFFFFPPKKKKKIFSP PPFWPPQNKFKKAPPFFFFFFF FFFFFLKSNNPFFFFF/SKNPILKPPLPPL FRVFPFPKKKKKKDP
10456	24357	A	10537	204	435	TSGSLYKLLGMGDLGLGKTTIFKQGHHQ NSS/GWHPEATTG/VNWAFKGHLHWDPKA LAHLQLWNIAI/QER/FGKMTKACY
10457	24358	A	10538	208	382	RFVCSTIKVLRDLSSDRSNPGRFLFTSN SSLFER/DQRNKAFFPK/RPSPVNIDIS T
10458	24359	A	10539	63	409	GWRLTNFPVGKTPSTSGTGLLFIFLLLNL MGRRLKPSSISMKREFRKQNRGQKC/EF MKKKKKKKKKKKKKKKKKKKKKKKIGGGAF LKIFRGGPNPGGEKIFFFFLLGGGIKSR GGGFG
10459	24360	A	10540	3	1322	RGYAWPNGALPASTVPCGFAACPGEFLC SVNGRQAPAGSSGFLPPVPSLCPTVCR ATFOCKEDSTCISLRRFPWGSETHLLCP APIPSVPGVPCGTFTFQCEDRSCVKTLS ASPLPLLLCPPHHLPPSPDCGLQGPSSR IVGGAVSSEGEWPWQASLQVVRGRHICGG ALIADRNVITAAHCQFQEDSMASTVLUWTW FLGKVWQNSRWPGEVSFKVSLLLHYPH EEDSHDYDVALLQLDHPVVRSAAVRPVC LPAR/SENREQGLQ/CSWITGWGALEG GPISNALQKVDVQLIPQDLCSEAYRYQV TPRMLCAGYRKGKKDAC/QGESPG
10460	24361	A	10541	154	3	GVGNFFFFFLRWSLTLaQAGVQWRSLGS LQP/LTSGSFLRQFSCLSLPSTRP
10461	24362	A	10542	3	406	LMVLWTAAHLPALAPGSRSTSLLAF/ALL CLPWLOE\AGAVQTVPVLSRLFDHAMLOA HHAHQLAIDTYQEFEETYIPLKDQKYSFL HDSHTSFCSFSDSIPTPSNMEETQQKCNL ELLRISLLLKISRLEPVQVLTSMF

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10462	24363	A	10543	3	414	HSSAHAYGTYESSGKRKYLQRPSRTAEL KKALKEKKNRLLQQRSKSVTSSSSSR DSSARDSSSEREETSTSSSEDSDTDES SSSSSSSAYSTNSSSFDSDSDSS\SR GRSTSTDSSADD\STNEEESELE
10463	24364	A	10544	240	509	TFTSFIIGTPNLGEFCKCNFGI/GKFR MKVACQIETLGLSFFFETESRSVTRLK CGGAILAHCKL
10464	24365	A	10545	275	2	GCSRPFDTAIPLMGPYPPEEKLLFEKNN /DTCTCMFIAAHFPVAKMWIOPKCPSEN EWIKNPVTHIYIHTHTYMCIIYIYTHICV CVIHIYI
10465	24366	A	10546	233	2	WSWMAIQSVLVPLQTAFTTELKNKYSCIQET PILFYFLKQSLPLSPSLECSGVIIAHCN /LQ/RPGSTTFPASASKVERTTGA
10466	24367	A	10547	2	420	KKKIPNRGGCLKRDTKAFLKTPPMQLRR TPPAFPKPGGGFLPDFNPLPPSKGNPPI YSWERFFPRFFKNIWAPVPKANLLSFFF FSIFWRTGSRYIAQAGLELLGSSYPPAS CLPESWDSSR\DRHARPTI
10467	24368	A	10548	190	1	AASTFFACVCFLFFFVFVETESPVAQ AGLQWHSHSSLQPPPNLG\SGNPPALAS PVAGNC
10468	24369	A	10549	155	1	ARGEKYFLEIGGGFFFFLILVFFLRQSHS IAQAGVQWCD\LNSMQPLPPRVK
10469	24370	A	10550	223	392	RFVCSTIKVLRDLSSDRRNPCRFLSTLN /SIAVRKDERYKAYFTK/RPDPVYDIIST
10470	24371	A	10551	183	3	WOKLLFLFGTESCSVARVGVQWRHLSSP KPPP\GSSNS/PASASRVA\TGAHLHA RLIFVFL
10471	24372	A	10552	297	10	TDEELLCMEEKRKWFF\DMASIPGEDTV NTDEMKT\DLEYYINLVDKVSAGFERT DTNF\ERSSTVSKMLSNSITCYRKI/F/ RERKSQQMWQTSLFS
10472	24373	A	10553	509	3	LLTDRTLSCSVGVPCSVRCQCA\LLEG ASQLG\SRGSGVRDPLEEAVCPFPDLQL RTGRTTALFKAVRQGHLSLQRLLLLSF\V CLCPAPRGGAYRGTQASLSCGGLHPVRA SRLLCLPKQAWAMVGTPPP\TSLPPCSL ISDCCASSQRDS/VGVGPSKPGAGYNLV VRFF
10473	24374	A	10554	262	453	GWGILTANLLVFGGSLISERIFFSPL ATGFCSVAQAGVQW\LIIAHCSLEFLGS SD
10474	24375	A	10555	112	372	KKKGGGPPFFFFFFFIFFLIRQRKAKLVL AFNRRGLRKPD\IFYYAGVGKIVKKYS GFFIELVTTCGKNYLMCALAVIDPRDSN IIIRS
10475	24376	A	10556	50	358	RFVCSTIKVLRDLSSDRSNPGRFLSTSN SSLY/EKDKRNKAYFTK/RSPVNDIIST
10476	24377	A	10557	203	350	QLHADKVSRFATHAECRGVIMAYFNLNL PH/FKRSCLSLIWSSWDYRHP
10477	24378	A	10558	98	387	IQDTDLIRGVYRYRDKKRAREKDSPPER EGEREREIEKQRKKER/ERKKERKEST HQKE
10478	24379	A	10559	237	3	EVFKNIFEIESCSVVTQARAQGQDHGSL

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						QPPTPG\SSSPPTLASQSAVITGVNHHT QSLTFSQPKQKALGKMCISGG
10479	24380	A	10560	37	359	RLKCGGPVIAYCKLEILGSNSNTPTSTSW VAGTT/TCHHAQ
10480	24381	A	10561	170	3	RPFPLPWGGKKFQGVSSFFFFFFFLVFFEI GSHSVP\RLKCGSTITAHCSDLLLGSSN
10481	24382	A	10562	1	388	LPEPLMVLRTANLVAMAPGSRTTLL\LA FALCLCPWLQEADAVQTEPLSMLYDHAM LQAHRHQLDIDTYHELEETYIPEPDQKH SLLHDSQTSCFLSDSIATPSNMEETHQK SNLEMVRISLILIETWLE
10482	24383	A	10563	224	392	CVDPLKWFPLRTATRQGCPLS\LFNIV LEVLATAIRQEKEIKDP/QIGKKEVK
10483	24384	A	10564	185	2	RYFGGPDPDSPQNKGKTVFNPLFFFETRV\ HSCCPNESNGTISTHCNLCLPGSSNSPA SASQVA
10484	24385	A	10565	175	324	APGYGTTKYRVLCKILLRRLRHKNHLN PGGRGCSEPRSHC/ITPAWVTE
10485	24386	A	10566	3	367	HELLWSTIKVLPYLRSDRSNPGGVISTS NSSLC/EKDJKNKAYFTK/RPSPVNDMI ST
10486	24387	A	10567	128	391	GETCEGVYGPQQGGKQTWKVFHSKKDEG PCSKTWDVGLGSSPOFIFLKKVRFFFF FETESHSVTRLECSGTPGT/HCNLCYPG TS
10487	24388	A	10568	251	485	SFLWRFPLKGVPGHVRCQSA\LLGGASQ LGYSGVRDPLEDAVCLLSDLKLCAGRTT ALFKAVRQGHLSLQRFLPLFSY
10488	24389	A	10569	176	3	FVPPILKKMGPFLKKKEGKPFFFFFSEM ESRSVT\RLECSGA/TISAHCNLCLPGS SNS
10489	24390	A	10570	212	386	RFVCSTIKVLRDLSSDRSNPGRFLFTSN SSLY/EKDKRNAFFTK/RPSPVNDIIS T
10490	24391	A	10571	134	489	SLFFLPSRDRWSLTQSTEMPPSWKFPG REIRSPPLLAMLHSLLLQPTAFLCPSSL LLSLPDKDSLRTGSLFLSFFSFLYFEACSV A\RLKPSGTISAHCNLCLPSSSDSPAS AYIVSG
10491	24392	A	10572	1	470	GQSRGIPLLLTLDEKPVSSLSSVTNLY SKNSAQFSTILQTLQFPATFTPSPSIPL SSAYFFFFSDRVS/LLSPROECGSLNLG AHCRPQQPRFKFSCLSPSS\SWGLTRR HTTPGLIIFCIF/SVEAGFHVVQATGLE LLSLSNPASA/FPKCWDHRR
10492	24393	A	10573	242	410	VMLRMQIYFSLHNPIFFFFETGSHFIA\RLECSGMIPAHCNLCFPGSSNAPASASQ V
10493	24394	A	10574	236	1	ARTFFIHLKASCGDNAITGVILWHRATW CPSVLLDRDSL SERVCEILCIHAC/VMR IHEHTHTTYIYAHTHTHTHTHTHT
10494	24395	A	10575	241	35	RSSYLFIFNFFFETRSVAQPGKLCCSA WAGTPG\SSDPPTSSSQSAGIIIGMSLN FLQWLIIIDQAGNTN
10495	24396	A	10576	294	72	FKNFKSPLFSSLFFFILGTRFCYVAQAG LK\SWPQGDPSALSRVAGTRGVHRHTQ LQVSFNYYYKVLAMHSGSQL
10496	24397	A	10577	1200	1625	PDGWSYSSGHSWLPEEASNGRKAWSSCW



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						V/EMPIKDLG/YYRNLVDKAVPGCERVD FNFEISSTGVWWLTPAIPVLL
10516	24417	A	10597	232	389	ILCWVFCCCCCCCFCETEFLVIQAGVHWC DLDSLQ/SPPPGSSDSPASAS
10517	24418	A	10598	463	154	MGQQKPRFPLFFHPFYIFFFLKQGFSLS PRVQGRAKKVPGTLASWGQKILLPQPPR /RVHQENCLNPGGGGFSEPKIIPPSFPAW GEKGGSLLKNLKKKKTKHIC
10518	24419	A	10599	208	38	LGPPQGFFKTAPPFFFFETESRSLAQV GVQWWDLGSLQLPPP\SSDSPGLSKFL LL
10519	24420	A	10600	200	3	CQPELSCMRC\RQSLLGGLSPSGGMEVR DPVEEAVCPALAEELKRCAGRALLVRICCS LQQQQAGTFK
10520	24421	A	10601	73	427	RVVCSTIKVLRLDLSSDRSNPGRFLSTSN SSLY/EKDKRNKAYFTK/RPSPGNDIIST
10521	24422	A	10602	193	401	GEVSLLSPRLECNGVISAHCNFR/LPGF KRFSFFFL
10522	24423	A	10603	181	395	RFVCSTIKVLRLDLSSDRSNPGRFLSTSN SSLY/EKDKRNKAYFTK/RPSPVNDIIST
10523	24424	A	10604	384	10	PRRPGECHLGDSLVTDRRYSGLRS SDQTLGDPMEAVPWSNSLSCSHYRLKPA SGITWGCKQAGFFSFFLFFFKMESHSV\T RLECSGAISVPCNLCLPGPSNSPAPGGS LGPRSSRPPWT
10524	24425	A	10605	215	379	RFVCSTIKVLRLDLSSDRSNPGRFLSTSN SSLC/EKDKRNKADEFK/RPSPVNDII
10525	24426	A	10606	1	163	QTHREPAMVLSPADKTNVKAD\WGNVDA HAGEYGAEEALERMFLSFPTTKTYFPR
10526	24427	A	10608	283	2	IQKHGLIIRCPQETPFKNNDVGMQKVKG RGEKSIMQIL/YFFFFLNS/HLSPLRE/ CSGAISAYCNRLRLSHSSDSPA/VDGTIG ACHHTQLIFLFV
10527	24428	A	10609	144	327	CSWSWFCGCVRVSTLIKKNNFFFEMEFR S\VAQAGVQGRDFGILKPPPPG\SSDSP ASASRV
10528	24429	A	10610	137	1	HKCPSTDEWDDEV/WCMYTKEYCSALTKEEIMSFGKTWMELENIMI
10529	24430	A	10611	201	334	SFFWRFCCLRGVPSPRVKCQCA\LLGGASQ LGYSGVRDPLEEAVCPF
10530	24431	A	10612	146	2	KTPLKKGLKRVPFFFFETESCSVTQAG VQWHNIGSLQVPPP\GSRHSP
10531	24432	A	10613	205	259	TTMPGLSFCTRKSINKLNSFLTLDGSAR VDLFLYLLLFRTRIFQNF/CGRDKVLLCC PGWSQTPELKQLICLDDLPKYWDHRYEPL CLAYPFAKGQNLTKI
10532	24433	A	10614	153	2	GVLMVSDGVLSMLANLFFSFLFF/LFET QSHSI\SRMECSGVISAHCNLCPLP
10533	24434	A	10615	213	8	KPPFFFFPFFFFLFFFRLRGSHCVVSGY/C KGTTIIVHCGLELLGSSCSPPAFQVSGIT GLCYCASIFIEE
10534	24435	A	10616	146	1	ILTIRDYWKITLFFFEPKFHS/VLPR LECSGAISAHCNLCPLPASSDS
10535	24436	A	10617	208	2	NNWFSSSGKYQYFSSETESRSVTWGH DLYSQLQPPP\GSSDSPASASQVAGITG SCHHAQLILVFIVE

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10536	24437	A	10618	120	2	SFFFFETEFRSVAQAGVQWHDLSLQP PPPG\SSDSPSL
10537	24438	A	10619	162	1	SFHWKRLRGA PGCMRCHSA\LLGGVSQ LGYSGFWHPL EAVCPFSDLTLCA G
10538	24439	A	10620	193	419	TFFFFETE SRSVAQAGVQWRDLGSLH/S QPGQQSETP
10539	24440	A	10621	313	460	KPGLWRGTRSQKQVLFFEPESH SVA\KL ECGGTISAH CNFCLPRSSDFSA
10540	24441	A	10622	243	505	PTGCPKQE QVQAMLRPVVFFFETQFN S/VPRVECSGT ISAHCNLRFPGSRDSPA LASRVAGICRR/CATTAQLI FVFLVETG FCHLVG
10541	24442	A	10623	67	430	LAR RTWKQNQHSSTHGCDLFFFFFFF LIKKGVFFF PPPEGGHGHFRFFF INIKFLN YKRRFFC LFEDVLMISVGPPLA FFFFFFF WRGGFSYLLLRCV/LTFLALGAPLFAPM FFLFLFGEEL
10542	24443	A	10624	3	207	PGGQLGSEC SGVRMDEDVL\TLKSLIIG ESGVGKSSLLRFT HDTFDPELAATIDP SSVVPNPARNAATP
10543	24444	A	10626	151	380	KMLFGQVOWLTPPIPALWEAEAGGSLE\ LRSSRPALKRSETSSPPSLPCQKKKKKK KFPRAGGQMLEV PFPGRVGAG
10544	24445	A	10627	210	3	NFCQVKGF FWKQKSSQIKGFGKNKKKG SFFFFFETEHSVT\RLECSGTII VHC SLDFPGSSDPPPTSA
10545	24446	A	10628	237	2	LCFLSGASCSPYIDVYTEVNGVNPTFI ITLNKNTNFGPLFLIIIFFGETESLSIA\ RLDCSGAISTHCKLCLPGSRHSP
10546	24447	A	10629	1	352	RGP LSIQDYI SKALFLLFGFL LLLF FEVRSCSLTQAGVQWCNHSHISSLQSPT PG\RSPSDPP PASAS
10547	24448	A	10630	48	200	AIKPKNFLFFSETKSSSVTQAGVQWRDL SSPQPPP\S SSSDSPAPAN
10548	24449	A	10631	209	376	SFLWKFC LKG VPGCVRCQSA\LLWGASR LGYLGV RDPLY EAVCPFSDLKL CAGRTT
10549	24450	A	10632	141	1	AGFFFFLFFF ETESRFVA\RL\QCSG AITAHCNLCLWGSSNYHAS
10550	24451	A	10633	18	522	PLYSLTKRHTPREA/KDNLKSTQ LLSVI DAISEGP IEGPVD GLKS VLLN STPVLDT EGNTNIS GVTVV FRAGEQE QTPPEGFES SGSETVLG TEVKYDTPITRTITSANIDR LRFTFGVQ ALVETTS KGDRNPSEVRLLV QIQRNGGWV TEKDITIKGKTTSQYL ASV V
10551	24452	A	10634	127	2	NLSPLFFFETGSRSVTQAGVQWS DLGS LQT PPP\GSRHSPTK
10552	24453	A	10635	336	452	RIFFFLFETE ALSVAPAV A QWF D LGS LQ SPPP\GSSESPA
10553	24454	A	10636	259	3	GTRIFFPFN SPLS FPPVQKKS VS PFFF SF/LFFFETE SRSVT\RLECSGAISPH CKLHLPGSRHSLASATRNVL RPLW RIHA SCA
10554	24455	A	10637	96	413	GDN TSQHSAILIN YF IFFF TFLFF/ETG SHSVAQAVRLEYSSVITAHCNFRLRGSS NPPKKKKGGAVLKDPWGGQSLPGLAT YFFF PYRGANKNL GDFWEGPLFV
10555	24456	A	10638	180	473	CYMGRKAWLVL SNNL TLK KKKKKKKKK

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						KKKKKKKKKKK\EMPVKOKNRGRALYKK KKGGRPFPPIFWPFFFFFLGGGKKHPGG FFRKKF\GGGGKKKK
10556	24457	A	10639	312	480	ETVDSTSGEDDVNIAEMATKDSEDYINLV\GKAVAEFERTDSNFE\RGKMMMSKSI
10557	24458	A	10640	2	516	MKPYLENLSQLTASLARGATLLRPVLRRLC GLPGLQRPAEEMPLRARSQDGAGPLYSHH LPTSPHQKALLAAGSAAMALYNPYRH/E ERPRISTSTLDLGKLQSLPEGSLGREYL RFLDVNVSPDTRAPTRFVVDDEELAYVI QRYREVHDMHLHTLLGMPTNILGEIVVKW FEAVQ
10558	24459	A	10641	56	455	PLCSYIQFIYHSKFNSNQISLVHTIPLS KLFGYFSQLYSIYSYLCQHFIHLLSIFI TVFCIVFYWVFVHLISVPMYICVCLTN VCVCV/CCLW
10559	24460	A	10642	272	33	GRWFFLFLGPACYFLTGGRFPSDFGGPLK INPPFPFFFDTESHSVAQAGVHWHNL GYLQ/SPPPG\SSDSPAPAEFHHTV
10560	24461	A	10643	285	1	MGNFLKRFFFKNEEKFFFPILRRAHPFNFF PGKSPFKTPRRALPLGVPPKHPFFFFFF FSETESRSVARLECSGMISAHCNL\NLH LPGSGYSPAL
10561	24462	A	10644	100	466	FLLKFRLREVPSRVRCQSA\LLGPTSQL GYSGVRDTLEEAVCPCFSDLKLCAARRNTNT LFKTVRQGHLSLQRFLLPFVQLCPVPRG GVYGRQASLSCSGVHPVRASPPLCPLPK VPPPS
10562	24463	A	10645	260	460	LKPHIAERETIDKGRLPYYSFFFETESC FVAQAGVQWHDYRSLPPP\PGSEGSRA
10563	24464	A	10646	360	504	QIGHICAYVEKTELRLIFFFLFFFQCS CSVT\RLECGSGTILAHCNLCL
10564	24465	A	10647	241	45	WEVEVPRVAPCHILKRDYYFIILFLFLF FEMESYSFT\ELECSSAISTHCNLCPPG SRDSPGIPPH
10565	24466	A	10648	76	462	FLWEYQEKAHLWSLFSKLILSRSRFTV KEKVRQKPGILFIYLIFEMESCSVQA GVQWRDLGSLSPQKKDS/DQSKAITFV EGINSKRGGGWTGPHF/HCSLKMIFLI
10566	24467	A	10649	3	359	QTQREPTMELTPADKTNVKAAGKVGAAH AGEYGAEEALERMFLSFPITTKTYFPHFDL SHGSAQVKGHGKKVADSLTNAEAHEDYM LNALTALNDLHAHKLWVDQVNFKL\LSH CLLVTLA
10567	24468	A	10650	266	3	TPEKKKIGGLGAPFPGVPKKIWPPNFF FFFKTKFFFFFQRVGWAPPKSFFFFFF EVECSVVAQAGVQWRDLDLQLPSPP\GS RGSP
10568	24469	A	10651	278	461	KKIICGFFFDTGSCFVAQAGQQWRDLRS LQSPPPG\SSDSLTSASRVVGMSRHMR AVF
10569	24470	A	10652	161	456	VFFFPGENIAFVENKTTLSYHFMFTRMT AAKMKMENYKGCGWGWEIGSFMPCWLESK RVQSLW\KVWQFFKWLNVKLLYGLAIPL TGICPKKLKKYVQGY
10570	24471	A	10653	91	486	PCFNHGHTTWYMFYFFSLSLILFFVFSLK PVILAYKTFSFPITIRVLLQRRHRQKFV LDGFNGVDDQNNILGSICVSLIKIFFLTE

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						SCFVAEAGMQWCNIGSILQAPRP\GSCHSPGISPPVVLG
10571	24472	A	10654	267	470	NLHMRCEQFNKLSFKDLFGLGWLIWF FIFCFWRRILTLSPRLEC/RG/MIFAHC NLCLPGSGHSPASA
10572	24473	A	10655	775	1401	TFPSQIRYGLRKRPNSLTLSPRLECSGA ISAHMQRPPPGFTPFSCLSLPSSWHYRR PPPRPAICVCVCVCVCVCLVETGFHRVN QDGLDLLTS/S/IPPASA/FPKCWDYRR E
10573	24474	A	10656	287	454	LPLIYFLYFYETECHPLAQAGVQWRDLS SLQSPPP\GSNDSSASASPTVPTSAM
10574	24475	A	10657	212	64	LFLSKFYFFEMESCSVQAQALQWCDLGS VQPLP\PGSEDSPASAWGYLD
10575	24476	A	10658	368	473	GFIIDHTRRERPECP/LTDEWIKKMWHIH TTEYY SAL
10576	24477	A	10659	358	1	IILAVFCFCGSAPGFE GGKLTPFFNRGRE TFLALVKTPPPGKARGGPVFISKNKKIPE FKQPPNPNPNSFFFFFETEHTIARAG VQWHLCLSQSPPPG\SSDSPGRWSLQRT TEIAPL
10577	24478	A	10660	2	235	KRDLLRHYPKEDIYMAN KYILK\CSTLT MHTETLIRTTMRYHLILIKVTIFKKTDN MTAVGVHICNPNTLTGHGRGIA
10578	24479	A	10661	9	538	CVTVRIPSRPTRPLSSDRSNPGRFLSTS NSSLY/EKDKRNKAYFTK/RPSPVNDIIST
10579	24480	A	10662	374	38	SFLWLHLRGAPGCIRCQSA\LLGGVSQ LGYSGVRDPLEEAVCPFSDLKPRAGRTT TLFKAVRQGRSLLOKFLFPVOLCPAARR GGVYRGRQASLSCSGLHPVRASRPLCSR
10580	24481	A	10663	268	47	ALIPLSSLTISAFHLLLLETVSTSSPKM ECSGAITSHCSFNLPDSSPSPTSASR/V IGTIGARHQAQLMFYFC
10581	24482	A	10664	64	451	FSSERKSHMSLTLNQKLEMIRLSEEGLS KAKVGQKLVRLHQTVSQVVDAKEKLLKL IKSATPVNIGMIKQHNLIADIEKFGMIW TDCQTSHRTVLCQRLIQSK/ALTLFNSM KAERGKEAADEKLEVRRG
10582	24483	A	10665	355	474	IILFYFIFFETECSVQAQGVQWRDLGSL QAPPNG\SRDSP
10583	24484	A	10666	317	481	GHTCPWQTFFFLLFRDRVLLHHPGWSAV TQS WLTAALT\FGPKRSSCLNLLNDWD
10584	24485	A	10667	57	329	VKN TQWGKDSL FNKRV\FKNWASIYRRI KLD\LTSYAKINSKWI KDLNVRLEIVKV LQVEYPSFKILGNGSVLD FVFFYSGIFA LHLMGEHP
10585	24486	A	10668	86	468	ENYKIPLMMGGKNFLLFPSIPPYFFFFSR LGLTLLPRLKCSGDHCSLQPRPPGLKRS SCL\GFPKCWDYRNEP/CVPR
10586	24487	A	10669	254	25	GSHICKVPAATYSNTCTSSEHGDGGVVG GCSSGSTTHPSVADSFVVVETVSL/S VTQAGVRWCDSLSSLQPPPPGI
10587	24488	A	10670	206	3	YGRPRKLCNIGLKSGFLDP THWGQHRVI SFFFIMETDSRSVAQAGVQWHNLGSLHP PPPG\SSDSPAS
10588	24489	A	10671	20	355	GFTSQSELLYSIDPITRPTDQVTIGISA

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						QSYCRVHVNRYDLDVESGHPNGAPAT KGSVCSTIKVPGDVSSGRSNPGRFVSTS NSSLY/EKDKNKACFTK/RPSPVNDIIST
10589	24490	A	10673	112	359	NKAQQCVHENHFKLKDANTLNIVWRTI CHSPNPKKYGLAILNLDSKGFRSRKD TGDEE/HFIKIKKSVIQEDFSIINIYA
10590	24491	A	10674	317	2	TGPGLFFPQIWKFVPPFPLKIFFTQKFLV SFWGFKTIKVGPVFFFPKGPQPRFFSPF LGVQAEEKFFFFFFFFFFFCERGSHSV A\RLECSGAISAHCNLCPPGFK
10591	24492	A	10675	240	495	DHRPEKTKSSTCQAGEVPLGLFVPFRS STDWVRPAFI/MEG/HICPTQSTNSNIN PVWKHPRHTQDNVWPNAWSPHGPVKLM HKLI
10592	24493	A	10676	271	484	NPAGOTCRIKSSFFSFETESCSVQTGT VQWHDHGSMQPQLGP\SDPPTSANS SA
10593	24494	A	10677	364	121	KQEVVRSLSHNALCNDQASPLPGSGHWK SKQKLSKAAPCAGSSKKHL/HKECWKH THHTHTHTHHTHTHTHHTHAIHAKTDKRF A
10594	24495	A	10678	354	539	FFFFFFFIVFEESHAIAQAGVQWCHLSSP HLR\SPPPGFN\DSPASASSAGITTLSS SVRL
10595	24496	A	10679	123	853	RWSLCHPRLE\CSGTISAICK/L/RAPG FTPFSCLSLPSWDYSARHARLIFFVF LVEFGHHVQSQDGLDLT/SG/IPPALA /FPKGWDYRRE
10596	24497	A	10680	251	30	ASLGVSAPLCIHVSPCPPNGDLGKTWWV GGGFFFEMEFHS/VLPRLECNGTISAQ CSLCLLSSSSNSPASASRIP
10597	24498	A	10681	203	1	NFPAPGKLGPQRDSLKTAPPFFFFETG SRSAV/EAAVP/W/CDLDSLQPPTLPDS SDSPNSASGVAGITG
10598	24499	A	10682	237	397	DSLTLSPRLECGNGTISAHYNLC/RLGSS NSPASAS
10599	24500	A	10683	8	388	LYMCWFRPGFLAHNSHDHGYSLLSCWG ASGLKKQP/CRLSEKKKKKKKKKKKKKK KKKKKKKKKKDKS
10600	24501	A	10684	201	463	IYWEDIVQGIVADRITSRKHNSKFLGEC LMFGQGFLFFFEMDSHSAARAGVQWRSLG SLRPLPPG/SQVILLPSSDSPALASRV D EIAGV
10601	24502	A	10685	151	1	PEKNRKTQKGAPPFFFFETGSPSVAQA GLQWRSHSSIQNNEPP\GSSDP
10602	24503	A	10686	165	3	CVFVEDIIISNFFFFFFMETESRSVAQAGV QWREHGS\ASRVAETTGVHHQAQLIFR
10603	24504	A	10687	292	384	NTEIGWVWWLTTVIPALWEAEAG/EITR SG
10604	24505	A	10688	161	365	RPPCWIRTSRWCRWYYRFDGSTIKVL RD LSSDRSNPGRVLSTSNSLLY/EKDKNK AYFTK/RPSPVNDI
10605	24506	A	10689	286	3	QPSVWSFRSVICAPAPFSGMGLSPELQ QCTIVGNFASRYTMTKSSAVLFILIFSLI FKLEEL/REAPASLVSFLPPQMLRIKWE SEQWLVLLCDRG
10606	24507	A	10690	169	2	SDTPAWWPRKHVFPPGFFFFETESRFV T\RLECSSTISAHCNCLPGSSDSPASGS

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10607	24508	A	10691	240	406	DGIRRLSFFFFFFETKFGFVA\RLEGR GTIIVNVNLHLPGRDSPASASQVAGIT
10608	24509	A	10692	343	3	QVPLNLSLHLKLGMLFFPGCINGSLSQFL QFFAQISPYQTGFPSFYKTSIYHNSLHQ YSLSFLPYFIFLFFFSSFFFLLKQSHSVS \RLECSGMVSAHCNRLTATSTTQVQVI LV
10609	24510	A	10693	196	3	YDAGHTKKTLHFPTVYPFVLFCWWECKM VQPRWKIVRR\FLKKLNTRKLPYDPAIPF LSVHQKELRT
10610	24511	A	10694	245	391	KTDYQPGAVAHFGRPRREDHPRLGVQDK PDQLEKPVSTKNTKLWV/SWVL
10611	24512	A	10695	252	389	KTGGKVLFEEEEESRSVAQVGQWRAL RSLQPP\QPGTSDCPASAS
10612	24513	A	10696	385	1	PPNAKAMISSKDNKNLHWGKDTLNNKWC WESWIVTCITMKLDSHLSPYTKINPKWI KD\LKTIKILGENIKTVLDIGLHK\NM SKTSKAMTKILDLIKLSFCPAKEIISR VNRKSTEWKKVFASYLSN
10613	24514	A	10697	296	430	KHIQARRGGGS/GCG/RQHSGRPRAADHL RSGVREQPEQPGKEKPHL
10614	24515	A	10698	280	468	DYLCL/SLSIYLSIYLSIYLSIIHQFIY HLFIFYHLSNLSSISIFFTKWLS
10615	24516	A	10699	15	393	RSVGVLGPVRCQCA\LLGGDSQLG\SQG SGVRDPLEEAVCRFPYLOLCTGRTTALF KAVRQGHLSLQRLLLSF\VWLCPAPIGG AYRGRQASWCGGLHPVRA/SMILLCLPK EAWAMAGAPP PASLPPLS
10616	24517	A	10700	176	1	DWTTFNTTFLYFKPSSLMPYLSHLFKT LR/MWPGAVAHARNPSTLGGRRGGWIMRS GDE
10617	24518	A	10701	494	80	FNKDKDIHSDTPSEGHQQLQRPNVETLKKM GRNQCKKGENDPKQNQASSPKDHNSSTPR EQNWMKNESDELIEVGFRRVWITNSSEL YKG\DVLTQCKEAKNLENRLGKVLTTRIT SLEKNGHGLMEVKNIAQELCEASAGWR
10618	24519	A	10702	264	410	KKGPLFTPPGGGGG/PQKKPPGPLNPGG QRDSSFFPPPGGGNTGETPPGG
10619	24520	A	10703	125	3	NRGNKGQV/QWLMPVIPALWEAEAGRSP EIRS RDQPRQHGETL
10620	24521	A	10704	184	2	RLRV LAPCRHLPRAPRTWPKRPFSSFF LFFPQTQSHSVA\RLECSGAISAHSNLC FPPTRP
10621	24522	A	10705	187	406	LFLWKFLRGVPGVHRCQSAI\LGGA SQ LGSSGVRDPLEEAVCLFSDLQLRAGRTT TLFKAVRQGHLLRQLRILL
10622	24523	A	10706	82	410	IILRGKFGKHYFNRIDWREALRQSLSLFN FIIFSNFLASLHKPEMETELKGSFIELD KALFQLNARDASLLSTVDSDFSFCRKFS R/CSKCGQ
10623	24524	A	10707	390	2	SKDCRTAKIAACSF LWKLRSRGAPARCK PELSCMRCLSA\LLGGVSQSGGTGIRD P LEEAVFPLAELERCVGRSAALFRASRQE HLSLLKMHPLPLPSGALSQADGSFIYK PLTGASAFLSEMPQCERR
10624	24525	A	10708	229	392	YSWWRQMHSVAHAGVQWCD/LVSLQPQP PG\SSDPPASASLAARTTGAGHHNQLIF
10625	24526	A	10709	193	2	RYLCYQDHVILLLLLLFLRWSLTLSL

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						RLECSGTIMAHCSLDS\SSNPPTISASQA AGTGACYH
10626	24527	A	10710	180	11	LLFFFETRS/HVSQTVVQCGMISGHCNLR LSGSSDPPPLASRVAGTTGKHQNIWLSR
10627	24528	A	10711	234	408	MKLMILKVLFPQIHLQIQPNFYQNIFFF ETELCSVQAQSGVQWHNLSSLQHPPP\G SSD
10628	24529	A	10712	312	470	TGPHCVT\RLECSGAITAHCSDLFAGLS TSPTSVSQVSGTTGTWMKLETIILS
10629	24530	A	10713	64	392	PKMVIRISSETSTLYASLPLQMKGQRQK/CEPQPKKKKKKKKKKKKKKKKKKKKKKAR G
10630	24531	A	10714	169	427	NNQKTNNKMVGVSFYLSIIILNVNELNAPIQRHRVAEWIKKEKKKK/DPGICGLQQTLLFYEDP/HDPLRLKIGGW/RKYYPSRGTIQIK
10631	24532	A	10715	176	410	ARSSWGLHTAVPVAAFFSLRFLLIEFLDR DTRCSPPAAFFETGSCCVA\RLEGRGA ITAQCSLNLLGSSNPPTSASRVA
10632	24533	A	10716	234	389	NSGNMDRYKDVNITIIONPICWPGBTVAHACNPSTLGGRGGQIL/RGQEFE TSLA
10633	24534	A	10717	190	2	GPFPHPGGFLRGFFVPNTIPPPPTFFFFFFFLRRSLSVAQAGVQWC DLSSLQPLPPGP\SNSPCO
10634	24535	A	10718	201	1	WPLFLPKMFFFKRFPHMGPSPWVGQAACKKKIIFLTGSHSVT\RIECSGTISAHCSLNLPGPSH
10635	24536	A	10719	195	419	EYHTSLVTGNGPCVYRSNNKLNQTSRRKVITKIRAELENEIETEK/LQGSGETKIWF FEKINKTGLELLGSSDPPVV
10636	24537	A	10720	218	407	GKKNLAFKKKRKEKKRKKS PSQSNMNSAKIEARTNIKL VVKHGWNCEIIIDA\LQKA FGDNA
10637	24538	A	10721	231	409	GTQLHLGGFFFSEKELSFCFWF/MFALFEMECA SVT\RMECSGTVLAHCNRLPGTSNSSA
10638	24539	A	10722	40	401	PLCPSESSGGNTIIMASSDPSTPAVPPPNT THPPCLSKSHPLRPKQGLPSGNLLQLPLTLIPIPLL GAPVACWQLPQQCTLSTFFFETKSHPVQA QGVQWC CLGSIQPLSPG\SRDSPDSAC
10639	24540	A	10723	210	14	HVMGLLLLFLNKLTVNNFGWL AGF WCLGFFWWFSFFFETRSGSVT\RLECSGMISAHYKLCIPGSSH
10640	24541	A	10724	347	462	TFFFFFFETKSRCDIQAGVQWC DLSLSPSS\PDSSDCP
10641	24542	A	10725	169	386	DKKQAKTIKWGKNSFSNKWCWNNCIATGKRMKLD P\YLTPYKK/INSKWI KDSL
10642	24543	A	10726	257	54	PLFFFFFFKROGLTLS PRLECN GTVTAHYNLKLLGSRDLPLTSASP\SAGITGISNPARLFTYLN PTHLQT
10643	24544	A	10727	2	401	NNYDRAFTQIYQYMCLNPTFYCLQETHLTCNDIYR LKVKG RREIMQIENKRVGVAI LVSDKTDFKPTTVKKKLHYI IKGSIQPE DLIILCTYSPNIRASRFIKRIPDLRKEIA/HTVKVGDFSI SLNRLSRQNT
10644	24545	A	10728	154	1	PMCSLLGLSLKGIIFFFFFEAECFCSVAQ

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						AGVQWRDGLS\QPPPG\SSDS
10645	24546	A	10729	34	151	PRPVPSLLDGRGLQLWQRGLRHRAHS NGFIGGKQQIMKLLKNYVRRPVG/VAVA IMFDPDPRYPRSWIEDDFNYGGSVASAT VHIRMGSILVENNKS
10646	24547	A	10730	2	408	VFLLTVRTLICRSVGWWWRSTPDLVCLG ISSGGCRTANIGLYQMLLPDHSSGSFCL RGVPGHVRCQSA\LLGGPSQLGYSRVRD PLEEAVCPSDQLHAGR\TTLFKAVRQ VHLILQRFL\LLRFVWLCPAPRG\GVYR
10647	24548	A	10731	274	89	ENIPIVFNPPVCSPLLWQPQE\CEYPKL CKLCLKLHKHRVFY\FLFFFETEPHSV ARLECSG
10648	24549	A	10732	251	1	TFQMMQKCFSHRKIFHNLLDKASYKIVY KEDPFSPSSLSSSVSLKNNNNFFLETESC SVTOAGVLWCHLSSLQPPP\SRDSP
10649	24550	A	10733	375	1	APFPPLWVRGSPFSPLVFPHPKLKPPL AEILGFFKERKGWSIRKPCLFKVKKLVS VWPGLELQIFKFIGEFPFSFPSLVGRKP NFFLGPVFFFFFEKEERSVA\RMECKGT ISAHCNLHLPGP
10650	24551	A	10734	82	398	SFLWKRLRQGVPSHVRCQSA\LLGGASQ LGYLGVRDPLEAEAVCPFSDLQLPAGRTT TLFKAVRQGHNLNLRQFLLPFVQLCPASR GGVYRGQASLSCGGLHPVRA
10651	24552	A	10735	2	341	TFCAISWLESQVEDGPRSRIISYRISTFF FFFFKAPEPKEVGRGRPKPGLAPTSLPGA HGTGTLSGWTPSISGGWQPPP\PRENPK GEHPPAPVAGDTFQ\PKKPPPILKVFFPK
10652	24553	A	10736	171	1	RVFYLLAFALFVDTGSPFVSQAGVQWCD HSSIQSQTSG\SNDDPPASAYRVAGTTGV
10653	24554	A	10737	190	1	EHKTTVRKIPKMEEMADSGSNMLRIIF LFLFFETKSCSVT\RLECN/GSISAHCN LHLPGSSNS
10654	24555	A	10738	252	413	GLLGLQNFSYKVHLITKAHLKKCSWLDAA AHAYNPITLGGRGEW/IQEFTSLTNV
10655	24556	A	10739	101	249	AGSTSRCI/QELSDLLEHLEQENCLNPG GRGCSEPQSCHCTPAWVTETQKK
10656	24557	A	10740	185	403	IGLPVHTMKSNYHYHLCHHHHLQHHHH HHHCHCHYHS/HHHNSQHPPPPPPPPPP HHHHHHHHHLP
10657	24558	A	10741	119	425	IKFHLHSMERTHLFLWNCWAHKQRNCFK ADFVITDDIKQLCPPQSWWTRAGKLPLG AGRGGSHMLSHFWRPRHADILYLGVDQ QPGQQGETPSI/LKNTKSSW
10658	24559	A	10742	112	2	GETFFFETGSSSVA\RLECSGAISAHHN LHLPGSSKSP
10659	24560	A	10743	188	3	PPPLFFFFFFKTGSGSAT\RLECTA HCNCCLPGSSHPTSAQVARTTDVCNH AWLIFV
10660	24561	A	10744	176	3	SLYSKNKNPSHLLFLPIPIKFFFFFFET EFRSVAQAGVQWHDLSSLQPPP\SSDSP
10661	24562	A	10745	250	1	GPRRIFFLKEFYPRFVFGKNPAPGGFFS GGKKGPGPFPFNPRPIKFFFFFFETEFRS VAQAGVQWHDLSSLQPPP\SSDSP
10662	24563	A	10746	155	3	PPHPFPFNPLPIKFFFFFFETEFRSVAQ

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						AGVQWHDLSQQPPPPG\SSDSP
10663	24564	A	10747	157	1	TPRPFPFNPPPLKFFFFFFETEFRSVAQ AGVQWHDLSLQPPPPG\SSDSP
10664	24565	A	10748	157	1	TPRPFPFNPHPKFFFFFFETEFRSVAQ AGAQWHDLSLQPPPPG\SSDSP
10665	24566	A	10749	153	2	PPPLSVVTPEAPLRFEEEEETEFRSVAQ AGVQWHDLSLQPPPPG\SSDSP
10666	24567	A	10750	157	1	PPPPFLFFPRPLKFFFFFFETEFRSVAQ AGVQWHDLSLQPPPPG\SSDSP
10667	24568	A	10751	155	3	NTFPFFFTPLTPKFFFFFFETEFRSVAQ AGVQWHDSSLQPPPPG\SSDSP
10668	24569	A	10752	86	406	SFLWKHLHRRAPGCMRCRIA\LLGGVSQ LDYSGVRDPLEAVCPFSGPKLHAGRTT TLFKAVRQGHLSLQKFLLPVQLCPAPS TGQEGRQASLSFGGLHPVQSSR
10669	24570	A	10753	364	469	GQFLHSLD/SWKKSDFCFLWFPHSEN VSAIHQDH
10670	24571	A	10754	250	61	GEKKKKKPRVFFFFFFETEPEGSVT\RL ECGVLSAHCNRLPNPDSPASASRVA ASAKLG
10671	24572	A	10755	66	446	SFLWKFCLKGVPGCVRCQSA\LLGGASQ LGYSGVRYPLEETVCPFSDLKLHAGRTT TLFKAVRQGHLSLQRLLPSPVCLCPAPR GEAYRGRQASLSCGGLHPVRA SRPLCLP TQALAMVGAPPGSL
10672	24573	A	10756	252	482	RRLPRQPVRKVAGVRGCCVWGVSKSLQ RSTTLWDQGPPQRGGPILLFFFFETLCH /TRLEGNGEISAHCDLCLPGSN
10673	24574	A	10757	205	488	PLELSRSPGLPLSWRTASSVSPVICIYY IYIYIYIYIYTHHY/HIHTHTHTHTHT QYIFVCVVFLKDRVLLCHPRQSAGARSW PTRTSASQRQEM
10674	24575	A	10758	272	471	YSYVLFFIFLGIESCSV/AFSAGVQWHIN HSSLOLQTPGLKQSSHLSLP/ASASPVA GTTGMRYHARLIF
10675	24576	A	10759	17	342	GTLSSGAQVLIGRIESIVVGLKPWALG GCPSPRAVHWLASSDWPSLQDGAEWG KKGEANGNHKR/GIAVISDQIDFKTKTI KGD\KKSHYVMIKGPIQQEAITIINI
10676	24577	A	10760	42	498	EFRERGREKEREKERKTEERMEDRERKA EREREKERQEGREREREKGRQRERERKR ERERKRERE/RHEPGSL
10677	24578	A	10761	1	305	ASWDDPAHNNNFHIPEGGVVAHFFF CRL DCPWPAPRPPAPR/VLL/TPAAAAAAA AASRPEKKRAEENVGAIPPRKRPPRWEERRGPRKGSAPPGRGAGRRAR
10678	24579	A	10762	364	2	FPOQKONGQYLPFPKPTGLCGKGKTRLG FFLNYFGKKKKRKGRELGFPPFCQIWGT SIYRGSMGYFFFFFFWRQVSLALLPMLE C\RGMI RVHCSLDLVGPSNPSTSASQIA RTTCTCMCHH
10679	24580	A	10763	152	484	RFVCSTIKVLRDLSDRSNPGRFLSTSNSSLY/EKDKNKAYFTK/RPSPVNIDIST
10680	24581	A	10764	208	420	SFLWRFPRLGVPGHVRCQSA\LLGGASQ LGYSGVRDPLEAVCLLSDLKLHAGRTT ALFKAVRQGHLSLQR
10681	24582	A	10765	319	85	GKLLNNNRCFGSKFQGIMFFFGETESPY

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						ITQSGVRWHDFGSLQPP\PPGSRDSPAS AS\RGITGARKHTQP\PIFLVSNS
10682	24583	A	10766	122	3	KFFFFFFETEFRSVAQAGVQWHDLSLQP PPPG\SSDSPS
10683	24584	A	10767	240	86	RAPPFFFFEMESCSIAQAGVQWLSQLLL QAPPP\GSCHSPASASCELMFSK
10684	24585	A	10768	244	85	RAPPFFFFEMESCSIAQAGVQWLSQLLL QAPPP\GSCHSPASASCELMFPK
10685	24586	A	10769	35	296	EVKSPSARQPPRLGSEEHLRPAAAPSGR EVGGQQPPGQPCPGGEG/PPPPGSPDW EVRSPSARQPPRLGGEPNSSLRTGHDDD GGIV
10686	24587	A	10770	260	484	MDEELLLMNEQRTWFLEVESSPGEDAVS IIQLATRDLEYDLNLVEKGAAG/LERKH YSFERSSTVDKILSHNTACY
10687	24588	A	10771	248	393	TQEGLKLINWPGETVAHACNPSTLGARGG RTTRGQELETK\LANKIKPCL
10688	24589	A	10772	239	2	SFLWKFCRLGVPGRVRCQSA\LLGGASQ LG\SQGSGVRDPLEEAVCPSSDLQLRAG RTSALFKAVRQGHLSLQRLLLSF
10689	24590	A	10773	158	455	LFFTLCPSLLOHIAMVLEGLGLGPKSIO PIWVVFQLGTEP/HFLVTPVR/CCLPLL KLFCLLVFGMESPSVPHAGECSGVISAH CNLCLLGSTDSSASPSRV
10690	24591	A	10774	166	403	KKTFLGEPFLFWGGAKKKPGKKNPONGFFF RG/IKPRVFFSRSRFFFFGPPPCKGFPQKS FFLKSLPGFFFLLFGCPPPFFFFFFFEM ESCSNTRLECSGVILAHCNLCLPGSSDS P
10691	24592	A	10775	208	1	RLCFFYFRKALLGKAQTKNIAFFPRKGS FFFFSETERSVAQAGL/LDCSGAISAH CKLRFPGSRQSPAS
10692	24593	A	10776	192	29	IIFKEFPCLNFFLFFFETEERSLSAQAGV QWRDLGSLKAPPNG\SRSPASRDTGV
10693	24594	A	10777	275	490	KPGFFLQLMAKVYMIFFFFEMEFCS\VA QAGVQWHDLSQHRRPPG\SGDSPSCLP SI/AGIPG
10694	24595	A	10778	340	3	LKPVVGKPRSTLLGVKKVFFGNKRKKF LALFFFPRPPPGEGFSTAFLAQKPTPRV VPALGFPKNQSPLSPLSFFFFETKSCSV TQAGVQWCGLRSPQPMPPG\SSDSPASC L
10695	24596	A	10779	313	1	ANPFGGPSGGDPFSSRVFPFPGPKNETP FFNKNTTATKKTGNKGWAPS PHRGPK KGPAWWDKKGKQNLWPFFFFETESHSTV\ RLQCSNTILAHCNQCLPGS
10696	24597	A	10780	116	422	IILEDTNIQTIETLLAIREVQIQTTLRNH FTLTGMAII/RKTDNNKCWRECGKIETL ICCWRECKMLCNEVGTALEIVWQFLQSL NIELS YDLAMPFIIFPRE
10697	24598	A	10781	120	418	TQTTGAPQLHLASRWLSRSGGLTSSPQE IPKLFWSIESPLGSSSKHLSLQVFVCLFV CSFVFEMESCSVARLECSIVISAH\CTL HLWGSSHFBHASASRVA
10698	24599	A	10782	134	1	SSFFFLCQTESCFGVQWHDLSLQPSTS RAQA\LSLPSSWDHRR
10699	24600	A	10783	2	435	CSHRGDSSSSYSQLSGIRAGDLGGGGKDI FRLIPT\TLMNIFAGKESYDVVCVTHEMC

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						LC/SCLFIYMCILCMCVHV/HYIHEACVF MCLCL
10700	24601	A	10784	432	161	FSRAGFH/RVSQDGFDLLPS\CLPPLGL PKCWDYKREPRPRPAWKLMCRQVHRKCTW LFIQIGSTLFKTNGLSAVAHAYNPNTW GGRGERIA
10701	24602	A	10785	270	442	NVRLRLGLALSPTLECRGTIMAHCRLLF PGLMQSSHLSHDRVAGTTG/TCHHAWLIF KFL
10702	24603	A	10786	12	424	LIQPLRLECSGALIARCNFTY/SLGSGD PPTASQ/VLKTTGVCHHAQL
10703	24604	A	10787	350	3	DSSSVQTNKIGIPGQVLSDLSCAVKASV LVIIPLHNALSSWLVPALFLWKSWQVGK SQOAHSSVSGLC/MHYRSHTHAAHTHS PH RHRRTYTYARAHTHHTQMLSAYLPSKQ PSGSLS
10704	24605	A	10788	155	3	HAFFALCIRNRLECNGVILAHCNLC/RL LGSSDSPVSAQSQVNGIAGACHHAQL
10705	24606	A	10789	188	2	RRDLSSLOPPRGGQ/MRGCIYTHHTHTHT HTHTHTHTVHWGWGKRHHVPKGKMSANG ESGRAK
10706	24607	A	10790	19	405	IRPTISRVERGINSLVASEGQRLPWDGI ACSGQLVVVQQTWGPLGPFFSLLGMPHR PTFRDLNSEPAPGVANVSGTLSTPLPGA SHGLLFFFETESHFVAQAGVSWGDLRS LPPPPIPG\SSNSPVAS
10707	24608	A	10791	157	1	KPGPFYYPGPPLKIFFFFFETEFRSVA\ RLECSGTISAHCNLHLPGSSDSP
10708	24609	A	10792	157	1	QPRPFPFNPRPKFFFFFFETEFRSVAQ AGVQWHDLSSLQPPP\SSDSP
10709	24610	A	10793	83	387	SFLWKLHPGGAPACMRCOLA\LLGGVSQ LGYTGFRDLLEAVCPFSELKHAGRTT AVFSAVROGCLSLOKFLLPFVQLCPAPR GGVYRG/RQALLSCHRLHPV
10710	24611	A	10794	204	419	KGVYGHSGCSFSSPPAPIACFRDKTLFPVS LWKEFVHSWPCKCTLQPQLWKTWRYLK NFKME\IPYVPEIPLLG
10711	24612	A	10795	207	2	RRGFTMLVGQNSLDPSTSRSRAHSLPKC WDYRCKP/PAPS/LREGFSYLLHSLLHP TPAPGSHHLWAALIC
10712	24613	A	10796	2	237	FFFLRERILLALSPRLECS DANMSHCSL NLPG/FSQSFCLSHP\SRWDHRHMPPYP VKFFGIFVGDRVLALFPKLISYII
10713	24614	A	10797	342	40	DRVFFCSPRLECSGAIJARCS/LRTPGL KQSSHLSLPKCWNHRCKP PPARCSLNE SHSAKKWPGQSTDSSACEVQPTSPFPT VPYPTLLSPSAGHGRGR
10714	24615	A	10798	209	2	CSVLAIVLNPECIYVV PWLELLAHDPIP RLVCPKSFFFETKFC SVAQAGVQWHD LG SLQPPP\SSNSP
10715	24616	A	10799	142	2	IFFFFFEMESRSRVAPGVQWSDLGS LPP PPP\GSSDSPASATPSPMQS
10716	24617	A	10800	276	2	ILPIIIIRNTCCFFLKESRS CSVTQARV QWHII/GSLQPQTPG\SSNPP PASAFQVA TGAHHHTSLIRNTLIIIINWEKNTHKLSG CTSMHFRFL
10717	24618	A	10801	12	364	LHHYKTVSGIYKCLCVLNGPPTRFFPDF LPPGLPYSLRHNNIEISPINNPIASK

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						YSRERMSCISLTNLQTLVMIKLNNEESLL KANSDHKLCLLR/SVYQVVNAYEKFL
10718	24619	A	10802	235	3	HRSPELDLDFPPHWAVMRAPQYPSPWDTRE GGPRSFLLFLFFEMESESYVAQL/EGTI SAHCNLCLPSSSDSPTSRALCSL
10719	24620	A	10803	349	1	NQTPFFFFFGGTETTSTTLCS\YGLLI LLKYPEVA/ESASQRDPWEAAWRLE GPGSAQPPSAPAKGQELDPVVGQRPVPS PDDHVQWPYTNAVLLEIQRFISVVVKRTL TLDTLY
10720	24621	A	10804	365	3	IDVCNVCVRKQYRGFCQKYRAWISPVY PHKCGWHRVYNTPTPHCETEWLVILHA QE\H/TFSLTGRHTHTHTHTHTHTSKL APPASRALFGVAHVEAQKALASPSSGRY LAITMFVQPC\I
10721	24622	A	10805	406	96	CPPEFSEESPRLLKFRVGGYLTPQVSKC GLGVVRIFKVFWSPPKVQTSLFFFSKT GSHSVT\RLEGDT\LAHCDLCAPGSGD PPASATRVTVTGVGLPPCPAR
10722	24623	A	10806	58	369	FFFFFKGDRQAQNNS/WGERCLLNKGYWDI WISTCKKMKSPTPYLTLLHTKISSKGLKD L\IIRAKRIHLLKKYIGINLHDGLK\DFL NMTPKTLATKEKIDTLDFIGIK
10723	24624	A	10807	126	1	KEPFFFFFFETESCSVQAQGVQRCNLSS LQHQPTG\SSDFP
10724	24625	A	10808	204	415	HLGFDSLTTICISLSDGLKYKATVFLVF FERESNC\AVWAECNGPISVNCNLRLPG SGSSPASPSSRGVEIT
10725	24626	A	10809	168	2	KISKRPFFFFFFETGSHYVA\KLECSGV ITAHCSLDLPGSSNPPTSASWAGTTGT
10726	24627	A	10810	97	389	LAVSPSLSLSLSLSLSLSYLGLPYSLRR SNIIEITPINTPAEGSVCSSERKGHMSLS FNEKIEVITLTLAQDMSNTKIG/RKLDLL CH\TSQVVNAEEKFLK
10727	24628	A	10811	24	416	LEYIARRYLGVVWLFFFFFFLNRQGEKSR GFPKFFFPRGFESTRNGAPPGGPWGPLP WGGGPPVGQKQGKGQGAP\PPKKNRFPK GGPLTQPNLPKTPIENPKGPPTRGFFPS GPPPKKGAGPPP\IFRVGPG
10728	24629	A	10812	60	435	KKRKNFPQKKISPYFYPLKWFKTPPLWV KNQTPPV/CCFEAPFSLKPPRGLKKG /WGNFNPPLVPQKKKKDTAGVAILVS DKKDFNPTKIKDKGHYIMVKGSMQQEG LGCPDAWVPS
10729	24630	A	10813	618	1519	FWFGVNCKSVCPFLPVLCVVVCWCEP GVLSQRSMQQAQSKPTSLGTMKHFKG FKGDYSVTMTPGKLRTLCEIDWPALEVG WPSEGSMDRSLSVSKVWHKVTCKGCPDQ FPYIDTWLQLV/YRPPPY
10730	24631	A	10814	179	15	KVKRLKTPFFFFFFETRTCSVAQARVQW HNHSSLQPPGPKRS\PTSVSREAGT
10731	24632	A	10815	61	422	NCFFLKGPPLFFFFFFFFLLQIIVFTI YKFAFLFQMEFRSLPRLDKCNGAISAH CNLSLPSSWDYRNLPPLRANFFLFLVET RQPASA/FLTCWDYR
10732	24633	A	10816	170	440	RQGLSLLPRLECSSMTTAHCDLKLLSSS NPPISAPHTIALG/LTGLCHHTQL
10733	24634	A	10817	322	443	FIFIFYFFFETRSHAVAQAGVQWRDLALL

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						QPPP\GSSDSPA
10734	24635	A	10818	134	3	KKALPFFFFLEGTEHSVA\RLECSGT ISAHCNLC\CPGSSVSV
10735	24636	A	10819	76	245	FLLRKGTROGGPLSS\LLFNIVRDVLAR AIRL\EKKIKDIQIGKEEAEELSLFADMI IF
10736	24637	A	10820	233	440	FFFGALKKWKSMTHKKVERGKRTTLNG GGIKAAKTASLKKLQGWGKVMLMANKL LRGERAW\FPPRIRG
10737	24638	A	10821	293	402	RNPFFFLETEPHSVAQGEVQWCNLSSLQ PPP\PGS
10738	24639	A	10822	168	1	PLRLGSDSSLGIMKRMATDLSSLQPLPP G\SSDSPASASRVAGITDSHHAWVIF
10739	24640	A	10823	97	405	LCVNICFNFPWLGVEWLNHIIGVGLTF FEMESCSVARLECGSAISAHCNLL/LPP SFGSSDSPASVT
10740	24641	A	10824	186	2	EPGTISLVALKLQKWPRR\SDHRLA DQPGQHDETPSLLKNTKISWAQWQAPVI PALEPV
10741	24642	A	10825	199	1	KKTQIGGAPGGALFFFFFFETGFPFVA\ RLQCSGTNQAQCSLNLLSSSNPSFPALQ VTGTPSACP
10742	24643	A	10826	252	381	GQQEFFFPCSVQAGGQWCNLSSLQAPP PG\SHHPASASRVAG
10743	24644	A	10827	77	427	IPIQVHCPMSPPVPMACIPRVSSFTSWVF HNLLPPSECPLGPLVPASSHPRPCVCCR PCTSWS\CPLWPRPPCSNSPV/TCVPCL PCLCISEIPSCVPWP/WTYSSLCPMSHV PDSPCPPLP
10744	24645	A	10829	20	518	SFAFSLLQLHTETSFAINSCEATLLFL SVFL/RAQTLTAPCQTRGPRRGKDRGSG SSSPSGPKATKESSVERRKSFDSWGHRF AA\QRLMDNQAERESEAGVGLQRDEDDA PLCEDVELQDGDLSPEEKIIFLREFPRLK EDLKGNIDKLRLADDIDKTHKKFTKAV
10745	24646	A	10830	351	3	LHFSPFLQHRQNikonikvwLMRASMQRHSRT HGAFPLHQDEIQTRPRLRSAASSGSPSL SDHILSTLPAFTCANLSSRFCSSSPCSC SCLRA/CCTCHFDLSTLIHAHTRHTHT HTHTMY
10746	24647	A	10831	8	376	GMLPAHLADVLRHNSVGRPKHMRVMAGA LEGDLFIGPKAE\EHRG
10747	24648	A	10832	336	38	GVATEGVGEAAQGGEPRQPEQ/PPPQPY PPPQQQHEEEMAEARQA/AGAPMDDG FLSLDSDPSVLYSDRAEWADIDLVLQNV GPNPVVQIITYSDKYTLWK
10748	24649	A	10833	206	1	TYFFPPPGGLFFIAGIFFFFFLETGSH/ SSLRLECGSIITASCSDLPPNDPPAS ASQVAETTCATMY
10749	24650	A	10834	226	376	RISQAIISFYFLFETESRSVAQAGAQ WSDSLSSLQPPSPGV\SDSPALPS
10750	24651	A	10835	213	1	DRVLLLSPRLGCSGMITAHCNLHLPWF RFSCLCPP/SSWDYRCPLP/PPRLTSV FLVETGFHHVGQAGLR
10751	24652	A	10836	351	447	RENWLTPVITALREAKAGI\LEPRSSR PAWAT
10752	24653	A	10837	71	472	SASTAPMAPVKLVVKG/K/KKKQVLK FTLDCIHPIEDGIMDAA/NSTNYEQFLQ

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						ERIKVNRKAVNLGGVVTTIERSKS KLT VTP EPIPFSRRYLKYLTKKYLKNNNLCDWLC IVANSKESYELRYFQITQDKEEEK
10753	24654	A	10838	37	382	SRCIMAFYLYGIRSFP ELWKSPYLGVP GP HS YVSLFVAGRCGV RNQQRLCSVKTMS PQNTKATNVIAKARYL RKD EGNSKQVYS VPHFLIAGAGKERSQMNSQSEDHK/LA/ PVRNAV
10754	24655	A	10839	313	617	AFFLIVFQYV A RERER VSRS/VNCGLYQ HCYFRTL
10755	24656	A	10840	309	511	WEQGSWEHVLQAPCSLIAPRITHAYTHHT HTHTRYTHTHLYPH/APTSIL
10756	24657	A	10841	269	450	TPWPLKKEFFF FLKWSLALVAQAGVQWR DLLGSSD SP\LP QPSRFKQFSCISLPSSW DYR/PC
10757	24658	A	10842	420	1	LERGENGTRRD RRKG LSHCHQPMDSVLP PLCHPPPLLV TMEEEITMLFIDIGSSMY KAGFAG/DDASRAMFPSIVRC PWHHGVM VGMSQKDSYVGDEAQTKHSILTLKYP IK HDI ITNE\WDNM EKIWHHTFYNKLHVAP CTI
10758	24659	A	10843	431	1	GEH SWASDLAEDVTKVTRGP GLGPLFWGL CSGNLSFSGC VPGLPAGA VPPWVPV PFQ GGA/SWVWKGPSPWTLHLLRTWGLAGG VGGRS LGRWRAWP GNPGS QGQGAPP AHO ATGTPRSRTG STGGIETV TILEGSHVSG MGIR
10759	24660	A	10844	55	297	QRWP GTLLGVQPG/ APPDSTSAS GSGGA RGGPVPTLEG GNTGSRKWE DPCWG SQNS PSSDGSKPPPGLTSKVCDDSR LSE
10760	24661	A	10845	109	427	QTG P SAA GLLE FARGPLQ TLFAW VPAAV AA EQQ I FVN RECCCL I VP LEF CLR GVP C CVRC QSA\LLGGASQLG\SRGSGVRDPL EGGSCP FSDLQ LHAARTT A LFTA
10761	24662	A	10846	17	416	SFLWKFC LREV PG RAR CLSA\LLGGASQ LGY SGVRD PLEA VCPF SDLQL RAG RTT TLF KAVRQ GHLSL QRI LLLP FVW QCP API GG VYR DRQ ASLCS G LHP I RA/SRA AVP TQASAMAGAPPD SLP PC SLSN
10762	24663	A	10847	265	429	LSGAS CCLFSL PIVL F ALLL SVLS FS F CAWC VP SWSL SPTL F LTF VLHFL*RF IS CF*VNSNP KNL TFM VN FQG KGM KIGL AL ERIC IC GCS LVPEA ILET SC QNLF CTY ACAG VLSS VYDYL ALLA VSF LFL*FF SL FFFF FLYYLFL FALG A SLP GLY LLLY FLL LCC IS YSL F
10763	24664	A	10848	12	462	QTLG T K MNEGL F AFTI APTI LGLPD ALL I I LF PPLI PT S*YLI NNRLI ITQH*LV KLT SKQ M ITI HNT KGRT*SLI LIS LIII I VTT NLLG LLLP SFT PTT QLSI N LAMAI PL*AGAE VIGFR SKIK NLA HFLP QGT P TPLI P ILVII
10764	24665	A	10849	2	462	TTL HAF GTM KRE AFIT LLCLFTSANS RG VYARD AHK SE A HRI KDLA EKDF LAL VL IAYAQ YLQ QCP FED HVKL*NEVTE FAKT CVADEA SETCD KSL H TLF GDSL CTVATL RETYGE MV DCCA KHE PV RYE CFLQ HWDD CPNLP*VVR PEVD

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10765	24666	A	10850	164	1	RGFQVRGE*NSGRETER*RERE*KLARE RAIGQEREREKSREAGRERERERKKE
10766	24667	A	10851	417	100	MMLVVGNLETRLWLSQAQTIPCTKQRSSL FFPVLNAAIFRSKSKVLCLEYFLGNTL FSWDLIPEILFPLSHYHHHHHHNNHQY *KS*QWSASNTRFQGILDKNSY
10767	24668	A	10852	339	3	ETTHSEARRGRSAAASCRGSGALRRGRFP ESRGRGREAAPVCPRHVLL*GAQSKQAAV AGKRSGTRHASRWPKSLFTPERRRISLK RALHFWQQSADPPSPSVSRIPPHGVGS
10768	24669	A	10853	1	373	LQQKGMRKRAGQSEMAPAVGVSRLATILC LLAWAGLAARDRMYLHPFHVLVIHNEST* EQLTAKANAGKPKDPTFIPAPIQAMTSPV DEEAQDQLVLVAALKDTVDKLMAAMVT MLAIFLGFRIG
10769	24670	A	10854	1	423	VSCSFLKLKTMKHGLLLLCGFLLKSQG VNTEEGFFRARGHRPLDKREEAPSIR PAPPPIITGGGYRARPAKAAATQKKVER* APDAGGCLHADPD LWV*SPTGCQLQEAL LQLERPIITNTVDELNNNVEADSQTSSSF L
10770	24671	A	10855	343	3	RGCEAHPLPSEGPGSALAQPVMYCTT FAGTLITAISH*FFT*VGLEINMLAFI PVLTKKINPRSTEAAIKYFLTQATASII LVIAILFNNILSGQ*TLTNTTNQ*SSSI I
10771	24672	A	10856	147	1	TRTPGQCVSPKSMFLGAVAHCNPITL GG*GRRIT*GPEFDPSLANMV
10772	24673	A	10859	189	422	NHTMDDFERRRELIRHKREEMRLEARI AYQRNDDDEEEAAR*RRRRARQERLRQK QEEESLGQVTDQVEVNAHNSVP
10773	24674	A	10860	90	273	SHQEIEQNSAMAPRKRGGRGISFMFYCL RNNDQRYMT*RL*SGIGWMLLSSGRMGY ALPG
10774	24675	A	10861	25	411	APCAKPCGDWRSRGSLVWAMSGCNARKG DCCSRRCGSHL*N*IPTDWPLN*FFLTS AKVKECFPKKESIYSQTYY*SPG*KM*T *DKEHPRYLIP*LCIQFYHLCWVTGTGG GIILKHGDEIYIAPSGV
10775	24676	A	10862	33	302	SRRATLIYVDMENGEPEGTRVVAKDGLKL GSGPSMLALNGRSQVSAPRFGRTFNAPP SLPIATIRALGTVNRATEKFVKTNGPLR Q*QPRS
10776	24677	A	10863	1075	1521	YCHTGKGEQLGERFCCEGVSRGPAAERGS DSQTPWPWPLCAAAGTSAGTSAGTSHSGSSSG AFSSWPWCWTAAEPAARKRGRPAGSWSSP ATGAPGRCRHRJILSRGAGGSAGFVCSGL AESGL*ESSSPGRSQG*PQGQRHPQPNG LPAPPSTSV
10777	24678	A	10864	245	418	TSKLAFTSIPVIYANKVCP*FSKKKKKKKKKKKKKKKKKKKKKKKKKKVF FFEFGPGFFF
10778	24679	A	10865	132	398	LNMKGDPKKPRGKMASYAFFVQT*REE HKKKHPDASVNFSFKCS*RWKTMSA KEKGKFEDMAKADKARYEREMKTYIPPK GETF
10779	24680	A	10866	115	455	LLTRNMDRLLLLAGGMPGLGOGPPTDAP AVDTAEHVYIISYLALLKMLKHGRAGVPM

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						EVMLGLMLGEFDDDYTVRVIDVIAMPQS* TGVSAEAVDPVITQAKMSDMLKQTGKPEMD
10780	24681	A	10867	64	483	QGERPAAAMKI*SLTLLSFLLLAAHVLL VEGKKVKKGLYIKVDSE*KDTLGNTHIKQKSRPGNKGKFVTKDHTNCTWAVTEQE EGTISLKVETQLDHEFSWAYAGNPTLCL KLTDEIVYWKPVARNLRLQNDIMIYSPO
10781	24682	A	10869	229	1	DTTILKLGRLLIQLQWLSEGGKSHMSFTL NQK*EIIKLSKECMSKAELSQKLGCFCQ VGSQVMHAKEMLLKEIKSAT
10782	24683	A	10870	934	515	KKVILLCLPGLGCGGVILAHGSLALPGSS SLHLSLQSSWGLTGM*YDARLIFVYFFR EMGSCHICQAGLNSYNNSIPPTLVSQNV GTTGVSHRAQLAPVFCFCFVTLVDVKAL HFGKQENRIFFFILFPGGSRDEDRAV
10783	24684	A	10871	373	424	EFKTNLANMG*CLKSQHLGRPRCANHMR LGVQNQLGQHGEIPFLLK
10784	24685	A	10872	1	469	RSRSGDSLPAACDRPSGASALATCETIFS AISCFWDLPPSLRLLTPSCQPTMSSQIR QNYSTDTEAAVNSLDNWYLQASYTYLCL GFYFDRDDVALEGVSQFFRELAEENREG YDRFLKMQNQRGGRALFQDIMPAPAEDD* GKTHNAMTAAMGLETK
10785	24686	A	10873	244	2	NIYSCKETFSVPLLAIHVYHFLVGRGGS QGIEMLWHRVLDLRYREQAGHSGSHL*SQ HFGSPRQVDQLRYGVSDQRGQHGE
10786	24687	A	10874	83	427	ISLNMRIRIAALNASSTIDDDE*SFRTH NTQTKEAQEAKAFALYH*ALDLQKHDR EESAKAYHELLEASLLREAVSSGDENEG LKHPGLILKYSTYKNLAQLASQREDLET AME
10787	24688	A	10875	94	1	KSQKACNPSTLGG*GGWIT*AQEFTTSL ANT
10788	24689	A	10876	2	413	GVTTRGFNMRIEKCYFCSGPIYPGHGMMF VRNDCKVFRFCKSCKHKNFKMKRNPKV RWTKAFRKAAGKELTVDNSFEFEKRRNE PIKYQLELWNKTIDAMNRVEEIKQKRQA KFIMNRL*KT*ELPKVQDIQEVLQNL
10789	24690	A	10877	65	417	RFAGAGAIPEARAWPTDVHAAEEEKEMD LPDLASRVFCGRILSMVNNTDVNAIILV QKNMLDRFEKTLLEMILNNFNNLASARLEQ MSEPLLHRRTL*DMKPDLGSLFRPIRT LEWKI
10790	24691	A	10878	4	442	APTPDAMGHFTeedkvttitglwgkvnve NAGRETGLRLLVDYPWTHRRFDsFGNLT SGSVIMGNPKVKAHGKVNLTSLGDAIKH LDDLGKGTFA*LTELHCDKLVDOPENFKL LGNELETDMAIHFGQDFTPEVYAYLQNM VTVVAN
10791	24692	A	10880	1	419	GKHIRQYHEEKETGQRINIEYYLGNML AKNLLFEKEREAEKEKSYEIPTKNIQG QMTPYYPVGGMNGTPCS*KQNRPRSSSTV MYICHPESKHEILSVAEVITCEYEAVIL TPLLCSHPKYRFRASAVNDIFCQSLPG
10792	24693	A	10881	54	335	REIFTMSGALDVLMNEEDVLKNLAVIT HLCCTKTDSMPMEQIIYGS*TEYIYSIKL NRT*QNLMLAVP*NYDI*NHDEVTVMTF

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						NNTLQMFP
10793	24694	A	10882	216	3	MSIKSMSMTCCLRKKGKHGFQIRGK*NSG RETERERERERKRARERARGQERERQKT SEGRERERERKKE
10794	24695	A	10883	3	390	GELKCSKEKCQSMSAKSRTIWIIGAPFL KGQPRGGVEEGPTVLIKAGLLEKLKEHE CDVNDYGDLPFADIPNDSAFRIVKNPRS VGKASEQLAGKVAEVKRSG*ISLVLCVNLGGGLECLCGHAKVYSR
10795	24696	A	10884	3	375	STMRRAWIFLLCRAGRALAVPQQESLPP DTEVEETEVAEVTDVSVGANPVQGEVGE FDDGA*ETE*DVVAENPCQNHICKIGKV CELDENNTLMVCVCDPTSCPALIGEVEK VCSYDTLTTFYSS
10796	24697	A	10885	95	2	KCTQGPSAVAHAACNPNTRGGRGGWIT*G QEF
10797	24698	A	10886	1	114	MGFHHVSQDGLDLVTL*GACFSLPKCWD YRREPTHLAH
10798	24699	A	10887	1	368	EPTMELTAAEKTNKAARWKVGAHAGEY GAEALERMFLLFTPTT*TYFPHFDFLSHGSAHVKGHCCKVADALTNAVAHVDDMPNAL SALNYLHAHKRLLDPVNFKLLSH*LLWT LSAHLHVEFT
10799	24700	A	10888	336	9	FRGQVIPAIFFPFQTTSLSYFQTGQPN* TPFQKILKLTTRGGKLLDFQTPGRLRQ KREDPLFPGV*NCN*P*SHPWWGTKQNP VSKKKKKKLKTSSI FVHRVSMSP
10800	24701	A	10889	3	362	GFLAPLEMQELGTPMNRIIQLTIAEQE TFLTPALLPIPQHTYSTASAVPLAKPD T*PKDVGILALQVHFPAQYEDQTDLENV NNVKALKYTEDLGQTLMGFCCSVQEDINS LCLTVEQP
10801	24702	A	10890	66	333	TLPGNIGISFVERVMEMVLRPOLIRIDGR NYRKNPVQEQTYYQHEED**DFYQGSMECADEPCDAY*VEHTPQGFRTTLRAPS*LY TPIVG
10802	24703	A	10891	405	49	IPWMGTERTRASAQRDVAGPARNPACPL PEQCFPGPAEWGTPLTPPGSC*LRPGER ERHGPWCWGRERLSSGQTHPPSPQGCA NTCPCCHKHQELLAGGVAVFYKLFYRYG NSPKWDL
10803	24704	A	10892	2	197	PQPLRVLWTAHLLAMAPSSRTSLLLAFALICLPLWLQKAGAVQTVPLCTLFYHAMLQ THRAHQLVIDTYQELEETYIPKDHKYSF LHDSQTCL*FSDSIPTPSNMEETQQTSLN L*LPDIPAPGFCPDLPALASKGWCRPNRSAMHAFLPRYAPNASRAPTGH
10804	24705	A	10893	3	334	DQLEPEPLKVLWTAHLLAMAPGSRTSLLPYA ALL*LPWLQEAGAVQTLPVSRLFDHALQAHRAHQLAIDTYHEFDETYIP*DHK *SFLHDSQTSFCLPDSIPTPSNMEET
10805	24706	A	10894	3	341	LLTPGVSDAICYILDGYIIMSDFTAY VIG*RFEVNG*HATVRFAAVVPPVALPW LGV*WDNPERGYTDGTHEWTVYFKCRHS TGGFFIRSINKVNLngTDFVTADKNLYVLD Y
10806	24707	A	10895	25	351	AMIQTDRDLOGGRAGFGLLKAQQD*RLDEI CTQLLDDLKYSNDEDLPSRILEGFKEKYM

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						EFDLIGNGHIDIMYLKLMLYKLA VQTD LQLPRSIGEVYSGSGETISYPDFLM
10807	24708	A	10896	364	38	FSQFKIAQFLKIKIPFPFGSPFFQNCGNF LKFSKFPNPKRGFFPHPFF*KRGPF KWGPQGHIGAHGPPAPQGQKIPPFQVPK KMGIKGPTPPPGFFFFFFFFFFSW
10808	24709	A	10897	136	3	STLKHR*RP GMVAHACNPSTLGGRSGRI T*GQQFKTSLT NMVKP
10809	24710	A	10898	193	269	GNKYCLTILL LLSFKRQS LTLPTL ECSG*TRTPGPKGS SLLNPS*VAGHGGV CL*SQLIRRLRWE DHLS PGV*GHSDPRL HHCTLTWATE*DSVS*KTTTTTTTK
10810	24711	A	10899	316	374	CCCCCCCCCCC*CCCCCCCCCYKETNFE QQ
10811	24712	A	10900	38	206	VYCVLVFTICT LLCNTSLGLF HPEFFFF ETESCCVAQAGLQ WIIHC*SLRLLPHRII
10812	24713	A	10901	364	2	DYQHISPEKHCR PEGSGMVYLMCR KKKK RKKNLSTKILNP QPSFIL*KPRNSARK S*QEITKIGADS LIENRKRIEKIYIN ETMSWFIEILNK IDQPLARLT MIERKDS TKFRNERG
10813	24714	A	10902	132	3	ATSSPWGYSAY RAVAILLFLYFS NKLAFT VLYGFV*NYFLQEI
10814	24715	A	10903	234	352	NFCFFETGSCSVT*AGVIMA HCSLDLPG SSNSLTSVSEE
10815	24716	A	10904	250	356	T MEMLDKKQI*AI FLF*FKTGDKAAET TLNINNAL
10816	24717	A	10905	280	322	QT*SLILVSL IICIATTNL GLLPYSFT PTTQLS INLAMA IPL*AGAVV IGFRSK KNA VLCTST PLPT STM LPV HMMDT SSD IHPKI*S IR*QTC IQR HLLL WLKC
10817	24718	A	10906	271	365	KWRPGVVA HTYNPS ILGSRG GWIT*GQE FKT
10818	24719	A	10907	135	358	LRYKL TNPKL TLLTC GLIF LKG NI VNI G QCNGV HM*YQHF GRPG QDC LSP GI QGQH GQHK E LSL *K SLK KIS WS
10819	24720	A	10908	107	212	IKNEG MGQVR WLMP VIPAL WEA*VGG TP EVSHSWL
10820	24721	A	10909	165	383	P K N R P I I P L K R S S I S N P G D F Q K S L R P G L TP M G P H F K R G N Y S Y D E N L C P V G G N K GPG *G LL T C T C R G F
10821	24722	A	10910	119	291	GGYRF YVKDT F*K*GFW PLTL FII LKPL AGH G G A C L W S W L M R L K *EDH L S L G G R G C S E L W L C T L A *A T E *D P V S *K V R L L A L N F V Y N T K T F S R A W C M P V V L A T H E A E V G G S L E S G R S R L Q
10822	24723	A	10911	283	2	SDNTIDT FLPF IYKYI FP IT WB Q GET WK KN P R N S R L K K T T L R S E T I A Q I P L K C N L W P G M V A H A C N P Y T L G D *GG W T *G Q E F E T S H S V A R E C
10823	24724	A	10912	1	360	PHAFG TMK WVTF MSLL FFLS WANS RG F RQ NAP K SE V A H R L K D W G K K N F K A W G *MA LA Q N L K Q G P F E N H G K L G K E V P E F A K P G V ADD A E N G D K W L N T L L G N Y L A P V A A V R E T Y G E R A E C
10824	24725	A	10913	270	361	SKTWP GTVA QTC NP R T L G S Q G G W I T *GQ EF
10825	24726	A	10914	157	1	VFFQL SRLAW KGFSR FFF VF E T E S H S V A R E C

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						*AAVQWRDLGSLQAPPNGFTPSS
10826	24727	A	10915	1	357	LEEWGPREFAAEKEKKNTKKKIKNS TPPKKPARKGEEKPGPFKRAITTFVAR IPLFCLKGFLWPSC*IIGRSSPTPGSKG HTGAPNCPPCPЛАAFPKDVPNFNPKMVE AVKNPIL
10827	24728	A	10916	102	471	PSTPIILTSSYPHYVKSSVTSTFIISLF PTTIFMCLYQEFLISN*HPTTQTTHLS LSFKLDYFLIIFFLTLVTSIIIEFSL *YINSNPNNINQFFKYLLIFLITILILLT ANNLFQLFIG
10828	24729	A	10917	2	138	REPTMVLSPADKTNVKAVWGKVGAGH* YGAVVLFWTWLTNVISD
10829	24730	A	10918	178	393	LVLCTVLLMWRFHFHDLSILKAQDVTE NLSNPTVLRGETGPSAVAHTSNPSTLGG *GKWIHQEFETSLA
10830	24731	A	10919	278	124	TAWADWGSNETPFLLKLPKKLT*GGGV LEFQVLGRVRPKNPFNGLNQGFN*PKFR PWTSTWGAKQNFV*KKKKKNKNKKP*NS RHTPP
10831	24732	A	10920	221	243	IIIGSPLIDIKISKCFLKIVAFGQAQWP VIPALWEAEAGRSPEVGSPRPA*PGSLK VHVDDNNWESIN
10832	24733	A	10921	33	292	GTMWLEIRHAVEVQCVLVSELVIPTSGD KPEQC*DHYLIT*YLILGKWGI**ISGA LEKKKKKKKKKKKKKKKKKKKKKKNNKIKTGG FI
10833	24734	A	10922	108	3	KLAVYGSVCL*SQLLGRLR*EDHLNLGH GGCSEP
10834	24735	A	10923	106	2	KLAVYGSVCL*SQLLGRLR*EDHLNLGH GGCSEP
10835	24736	A	10924	195	2	ASLFKSQLNRAFIYLFYVFIFETGSL* PMLVCSGVITAHCNLHVLGSGDPPTSAS QVAETMVL
10836	24737	A	10925	127	2	YVCILKNLKGPRGMVAYACNPSTLGGQC GWIT*GQEFTKSL
10837	24738	A	10926	639	282	FFLSIKGVWVQQFMPIIPTPWGLKQEDHL RPGLRDQPVQNKSPTPSLLKI*KLARRGG ACL*SQLFRKPR*ENCLSTGELPKGGI FIRLVQNKIPTTRGEKRKQSHTGSYQCP KIKKKG
10838	24739	A	10927	1	363	ALLTQALTCRQAGAEAPHAGATPSLMP SLPQGFRDCSPSDAAYTMEMTIDKKQNZ VTLILFKFKMGHKAQQTTRNINNAFGPEI ANKGTIVQWRFKNCRKDESREDDE*YAO PSKVATDQL
10839	24740	A	10928	53	379	TEAEELLTLYLLPNALLNHFTSPPLMFAD RRLFCTNHIDIGTLYLLFGA*AVVLGTA LSLILRAELCQPGNLLCNNDHIYNVIVTA HAFVIIFFIGLPIIIGGGFGN*LFPL
10840	24741	A	10929	180	350	EPMAKGKTESPGPKRCGP*I*WVISQRG TLRFRGAGLFFMGEFLRLGENLLEIPRG A
10841	24742	A	10930	361	379	RRYWWLG*VQWLMPVIALWEAKAGRSP KARNL
10842	24743	A	10931	121	543	HRNTGSTHASAHAYHIVHTNP*PLTGAL SALIMTSSLAMGIHFHSITLLILGLLTN TLTIYH*WRDVTRESTYQGHHTPPVQKG

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						LQYGIILYIT*/VFFFAGFF*AFYHSIL SPTPQLGGHWSPTGITPINPLKDPLNT S
10843	24744	A	10932	227	339	VGGVKSQVQLLNCHFSR*MKKKKKKKKKK KKKKKKKKKKKKK
10844	24745	A	10933	64	409	DQRNKSAAHLRAHLKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKRGEL*KKIN WAFFLPLLKRKFVGENFLKKNNFWGGNI GGQISSKKYRGGGK
10845	24746	A	10934	2	362	NKLSPGPYPEKVGYTLPVLMNPLAQLVYI STIFAGTLLITALSSH*FFT*VGLEIDML AFIPVLTKKINPRSTEAAIKYFLTQATA SIILLAILFNNILSGQ*TITSTTSQYS SLIILRAM
10846	24747	A	10935	154	3	GCPLSPLLFNIVVVKVLVRAMQEKEIKS IQIGLEVK*SLLTDNMILYLGQN
10847	24748	A	10936	250	363	TAWPGYLYSFSFLY*ETTKIWLGAVALA CDPSTLGGGRG
10848	24749	A	10937	199	339	NVLGILLVFRRIIVEIYKCGRLWLGTVAH TCNPSTLGCQRGQTT*GRE
10849	24750	A	10938	130	240	KNEQDPRDL*DNDKWPNIHVIGVPEEDK DNGTERVFD
10850	24751	A	10939	35	235	FILVENTKKMCICPLLNMIYAILYLFVP SVFL*EENQK*GITEKKKKKKKKKKKKKK KKKKKKKKKIKPGGL
10851	24752	A	10940	179	12	DQPQHNAKTLSSLQENKNKSSWVQCCV*P QLLGRLRWEDCLSPGGRSCEEPCSHSG
10852	24753	A	10941	297	278	INQDNELTLLINQSSQKIQHKHNINQTLRT KMNENLFA**IAATILGLSATVQIILFP PILIPTSKYLINNRLLTQQ*LIKLSK QMITIHNTKGRT*SLLGGD
10853	24754	A	10942	3	318	FGGGGRGVRYNPDAFVLSVLLPSRLLFPH LFPHLFPLPPFLGLAPYCFLTL*YF*K* *LYYSQSIIFFFYREMKNKLLVFWAINL FFLYYYYNYMEMWTLCIYWKN
10854	24755	A	10943	190	3	KLSHQSVYFKTPFI*KNHVLFK*KNLW VYPNDKFFFFFESLALSPLRCNGTIL AHCNLR
10855	24756	A	10944	281	1	KKWLFSYYSSLYGNGLFLIPPFLRVSGF GKGFWKFFFLRARGALFWGSPLKGFFL GFFFVVFFFF*DGVSLLLPRLECNGIISA HCNLRFPGS
10856	24757	A	10945	169	319	NGVEDAFKNMVLGWAQWVTSVIPALWEV KVGGSPEVRSFRPTRPI*KYGFRLLGTVG YICNPSTLGGQGRIT*GQEFTQNPANM VKPC
10857	24758	A	10946	312	1	FARPGLLKSWDFQP*PLDPVWGFVFFKRF PENWLEFEIFPFLIIMAKRKKKLKSLSLFP FPFLG*FKD*GQKTPFFFETVSLLLKP LECNGAISAHCNLCLPGSSD
10858	24759	A	10947	208	329	TFTGDRSRNNRIG*ARWLTPVIPSWEA EAGGSLEPKSLR
10859	24760	A	10948	116	374	FYFGYLLFFFCEMAPCSRGSWSARG QSFNCNLIFPGSSDLYVSAFRVARITGAR DHACIIIVFVVDGGCVDTITSGLAGWLR RG
10860	24761	A	10949	264	434	QLAFCTDTLTSVREQCEQL*KCVKARKR IELCDEQ*SRSHTD*DCTDELFDFLHA

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						T
10861	24762	A	10950	226	429	NFGFRLDKTVFFSKIRINAWAQWFMPVMP PELWEAKAGGIT*AQELETSLSNIVRPW LYKKFKN*VWWC
10862	24763	A	10951	188	433	YSAEWKIDLGIEVFVWVGKMTYKQ*FFWF VFKFLFF*RQGRTLSSKLEWMSVTGHC NL DLLGSRETFAASFQVTWTIGSCHS
10863	24764	A	10952	298	445	LFSKCSSKSIIKEEGPGVVAAHACKPGTLG GRGGWIT*GSEFESSLANMVK
10864	24765	A	10953	244	1	KTPQGLVVFCFLKKSPKGIGKVSMGV ICFLKSRINLFNPRGLGQRKNFFFFFF ETDSYSVAQTGVQ*HNLGSLQPPSC
10865	24766	A	10954	199	3	QETKKEQNKENKQIK*RSTRKKHRQGTN KTKERGERQTPVGNRQTPTLGIHARPR RRATTPRA
10866	24767	A	10955	157	3	YSYTFSFIITTSILIIQTLSGHGGACL* SQLGLRQLQDNHNLNLEHGGCTRA
10867	24768	A	10956	263	357	GLSLVKVLTQWLGAVALACNPSTLGGRRGG *IT
10868	24769	A	10957	333	2	KWKADMLIPLVVIKSFFLGIFFKMFNSK RYIFLQLLQAHQSSFFSFIRCMEL*WPY PIPLCYGQSNQPSV*LAYCRDLFNELIF FFFETEFHSCCPGGISAYCNLCLSC
10869	24770	A	10958	130	228	GSSFLGGSPSVAQAGVHLPDHGSLQ*DK SPSVQKMSKWIGCSGACL*SQLRRRLRC QGRISP*GQACSEP*SGRCTPAWATEGD PPKKLPLPYTTDS
10870	24771	A	10959	250	3	VQACISITGALYQRRNAEDEPQTARPISG FTTSIAMRLMLLTCSGHIPVADLAFSG IMP*GLFFPSRQNLLALSPRLECSARA
10871	24772	A	10960	199	326	VLGRMWSNQKNYTLLARM*KIK**NNTR CWGGCGATRRIIH*CQECRI*KCQPQSL WRTV*QFLNTLNIR
10872	24773	A	10961	323	3	LLFFHLPDNWQH*YVFCHYNLSFLQFYI N*IIQLLVFCVWLLSMSIIILKSHPCHF K*LSTVTFFFQSRSVSRLEWSGAISAH CNLCLPDSSDSCASAS*VAGSC
10873	24774	A	10963	120	3	PFFFFFF*EMRSCFVAQARVQ*CDQSSL *PSTPGLKQSSC
10874	24775	A	10964	168	441	LTPVIPALWEAEAGRSPEVRSSR*SPP
10875	24776	A	10965	19	207	APLKLNVAMELSLGQWDVSRSNLWEIPL KKGDTGRVQWLTPVIPALWEAEVDRTPE VTSVTRC*PLKLNVAMELSLGQWDVSR NLWEIPLKKGDTGRVQWLTPVIPALWEA EVDRTPEVTSVTRC
10876	24777	A	10966	209	1	TKSALSNNMVVTTHIGLCKNFCIVL*DRV SVTQIGVQWHDSSLQSLSPRLKDPPPTS ASRVAGITGMHLV
10877	24778	A	10967	109	1	DYLRSGV*DQPGQHGKTSSLKIQKLAR LVGPIISC
10878	24779	A	10968	141	2	GLAMPLRLENIIFRPGTVAHACNPNTLG GRGGQIT*GQEFKTSLSC
10879	24780	A	10969	175	348	LVYECKHILCVFNTSLFFPH*TCYK*RG VLWLGEVAHACSPGTLGGRRGGWIMASGD RD
10880	24781	A	10970	108	2	KTKKLHMRSGVVAHTCNPSTLGG*GGWI T*GQDSC
10881	24782	A	10971	184	2	SFLWKLHLRGVPGRVRQCQAPTRGASQL

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						GYLGVRDPLEEAV*LFSDLKLCAGKTTT LFLV
10882	24783	A	10972	245	339	SQISCPGTVAHACNPSTLGGRGEWIT*G QEF
10883	24784	A	10973	295	340	KRVFF*ARKKNPFLSPLWGLTLENPLGF RLFLNPFLGLKISQFFFPRQI*PLAFFF WGTLPRPLNLKFGPFFFFFFFG*DG VSFCCPGWSQARRYIEINISLSTCPRA
10884	24785	A	10974	186	340	RPYLTIRFKGHPPNEPIQ*SFFVLFCYC FDTESRSVTRLECSGSNSAHCNL
10885	24786	A	10975	253	491	FLECTSLLKRQRVHPGQHSKAPPTKELO TTGRGGALLQSHLLRRLRQEHLGPVG SYSEP*LHHCTPAWVIEGDSKK
10886	24787	A	10976	141	1	SFSFFKFSPTGDMIGFF*HFFFFLRRSH SVAQAGVQWCHLSSLKPRA
10887	24788	A	10977	3	138	HEETGFHLSQDGLNLTS*STHLGLPE CWDYRREPPPREGDF
10888	24789	A	10978	186	323	YESRSATQAGVQWCELGSL*PSTSRFQ* FFCLNLSSTWDYSGLAPS
10889	24790	A	10979	183	3	IKITFPFFFLRSLALLPRELECSGTFS AHCNLCLLGSSSDSAS*VAGITGTTPSPM QLV
10890	24791	A	10980	309	55	KNFGPNWVKFLGGKGGEAFLGKFFFF FFFKESESWFVFQG*MQWGDFRSLQGPP PGVTQISRLGKIGGPLFPKKKKRERGN M
10891	24792	A	10981	637	838	SQHLGRPMRVDQLRPGV*DQPGQHGEMP SLLRIQR*AGHGGTHL*SQVLRVRQDN CLNSGGGGCSE
10892	24793	A	10982	275	2	RNRITLKMFEFLSWFWGFWNWLLNMIRPK VKDSTSKSMENTDSPWHELPKELGKINA FDTPDSLLVRGKFSDSIHNTFDHM*RTK EYNEARA
10893	24794	A	10983	98	346	GHGHATLRLGLCVLTFSFHITALSVSGTN DAEDCCCLCETQKPICGYIERNLLYLLIK DVCRVPAAV*VVERVYSLISRYSLWRD
10894	24795	A	10984	30	410	LPEFTGRPKRTTRGFSTNHDTDIGTLYL LFGA*AGVVGTAVSLLIRAEGLGQPGNLL GNDHMYNAIVTAHAFEIIFIVLPIIIG GFGN*LVPLIIGAPDMAFPRINNICF*L LPPSLLLLLASIAAE
10895	24796	A	10985	141	360	QTLRTKMNENLFASFIAPTIILGLPAAVL IILFPPLLIPSTS KYLINNRLITTQQ*LI KLTSKQMITIHNTKGRT
10896	24797	A	10986	3	347	HELRTKVNEHLIASFMGPTSLGLPAALL IIL*PPPLLIPSTS KYLINNRLITTQQ*LI KLTSQNQMITIHNTKGRT*SLILESIII IATTNLLGLLPYSFTPPTTQLSINLAMAI PL
10897	24798	A	10987	46	317	KSMTPIRKINPLIKLINHSIDLPTPSN ISA**NFGSLLGACLILQITTGLFLAMH YSPDA*TAFSSIAHITRDVNNG*IIIRYL HANGAS
10898	24799	A	10988	245	1	VSCLEGKLTNRKDIAHTKNPSVHHHHQR PKVDKTTKMGKKQNRKTGNSSKKQTASPP PKK**SSSPATEQSWMENDFDELREE
10899	24800	A	10989	255	1	SCLPWANWISVQNQHKKTFLVIRTFFFPI GSFHVT*LLGPPPLILISPPRIFFFFETG

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						SFTVARAGVHSGAISARCNLRLLGSSNSA
10900	24801	A	10990	166	307	GEKPWGPLIWGGLVGRSSWASCQVLELL*EMVFRHVAQAGLKLSSSNPPASASQSAGITGVSH
10901	24802	A	10991	109	330	TNQFKTKKEREAGKKVKELERERERGKKRKEQRKNEKERR*P*NMD*RRIRERNHSDFDYEFЛИCGLLNLLHV
10902	24803	A	10992	244	326	GRYLKGWLDPGA*AVVLGTLSSLIRPELGHPAILLGIDLISSSVITAHAWSILLRVIPIIIAGFGN*LVPLIIGAPDMAPRINSISF*LLPPSLLLLLPPPI*QMRAVGGERVRVR
10903	24804	A	10993	101	2	KTFWARFVGTC*SQLRRPRQEDHLRLGGRC
10904	24805	A	10994	177	1	TPSLLFFVNIIICFLCLNPGGGGYSEQKLC LCTPAWVTE*NSISRPSQNNSRQSROVNHLF
10905	24806	A	10995	214	326	KEERKNPRAIRVV*PWGFFFPLFKEISLFLFVFRFWHGYPFPGAFFSTQKWLVF*T MVLFFFFFS*VSLLPRLCECSGVISAHCN TFLPGSSDC
10906	24807	A	10996	184	379	LCGMVYHFPSILLLYL*CKLFFSPKLEFSSCPLECNGTVAHRSRSLRPASGDSPTSASRVAGHGGTCL
10907	24808	A	10997	136	3	GRVDGQHIMTHQSHAYHIVKPSP*PLTGALSALLMTSGLM*FH
10908	24809	A	10998	274	363	PWAYAEPLTLHDATYSCT*SLIRASFTLFIA*TTRRLRLP*SFTPTTQLCMNLAMA IPL*AVAPDIGYSSMITNALSHLLPQCTPTPLISILGIETVSLLIQPITLGVRRTANIT*CHLLMHLIGSATLSISTI
10909	24810	A	10999	305	1	NLHTTPSQIPLT*PLPNINIHNLHLTQQ*IKYLILIPSNLFHNPNLKTAYSVPPSPNLHPSSNSPASASQVAGNAGARHYAWLIFVFLVETGYSLV
10910	24811	A	11000	154	2	IVVGILQSRRCGSRL*SQHFGPRPQADCFTPQVPDQEYFTLLPEVVFLV
10911	24812	A	11001	142	367	GVCLYQRISIYIKTKKLSQGLFYFLLL LLLF*EGGSHSVTKLECSGGVSAHCNLC LLASSHPPTSSSQVAGTTG
10912	24813	A	11002	60	385	GNTLLSHTLRAHLENLHAEFIDRTILGLPAA*LIILFPPLLIPTF*YLINIRLMA NRH*LIKLTSERMITIRNSIGRT*SIIIVSLIITIATANLLGLLPYSITRTT
10913	24814	A	11003	214	83	SKKASPLTFNIVFQVLDNSVREEEIRY TEMEKEEIKLS*FVD
10914	24815	A	11004	241	368	SYLL*PSP*PLTGALSALLMTSGLPMRFHFHSITLLLILGLLTNTLTYYQ*WRDVTERESTYQGHHTPPVQKGLRYGIIIFITLEVFFFARFF*AFYHYSLAPTPQL*GHWPLTGINPLNA
10915	24816	A	11005	3	396	HEPHALGMPLTADLPSMASCSQTSLLLLLHLLHLPWI*EARAYQAAGCSKLFDHAMLQAHRAHQLTIDTYQEVEETYIIPEDHKYSFLHDFQTSFCFSDSIPTPSNTEETYQKSNLELLRISLILLIESWLEP
10916	24817	A	11006	156	335	FGCCCCFLFF*LVYCCYVMMLYYYVLI

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						SFGFYF*YWIM*YFYRLVYNITYLVLFYLYMS
10917	24818	A	11007	107	2	KCSSSKHFTKEDSQITNKHIEKCSS*LLVREMQII
10918	24819	A	11008	129	412	KTRSGFKKTPGQKGKTPLLKKTPKITGP GGGALKPPFSGGFRPENPLNLRDKGSSG PKTPTFFSPWGKK*NFFQKKKKNLYPG KIFFFWMKNI
10919	24820	A	11009	63	268	CTFKFKNHCSCTIQSTT*LDRSEKKKKKK KKKKKKKKKKKKGGPL*KNFSLKGG
10920	24821	A	11010	154	422	NEFSFFFFFWKPKPPFFAQVGGQYRNWG *LKPRLPPWLKNFSGFASGEAGITGGVPH PG*ILVF*VKAGFHIENLVWNSETGNQP ACASQ
10921	24822	A	11011	23	375	TRYLTIKKKKKKKKKKKKKRGAPFLK TPWGAPFFPGSAIFIFFFFGGFF*TPLG FFWETLFFFWGKILGHLSPKILPFWGKK NFFWVKGGKNNLNSPFLKIFFLGVFFKK FFPPG
10922	24823	A	11012	151	361	ACTTTPSSFFSNIIDTVSLCCPG*VPGHN NSSLINFPSFLRSWYYRHAPPHPAHFFP ILIRSRYVAQAGLEFLALRDTPISDCPC TVHYPPSLAN*SVFFFFLTQSJVSLPRL KRK
10923	24824	A	11013	146	378	NFVVFSTIEFLHICY*IYSFICLIKVFL* *KKKKKKKKKKKKKKKKKKGENLKGAG GGKKFLGGGGKNNNSFFRNGGC
10924	24825	A	11014	82	264	TEFLFLYTICNWASAILYILC*RNKVFLSF INTEKKKKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKIERKI
10925	24826	A	11015	381	2	GRTALFTLLKGPIHRPQMFFTPLRVFPG SYTGISIRQSGFFFIKRVIFFRLL**KAL FLLPFLPPFFSFLKIGTYSVAQECNGM IIDN*NFELLGRRNPSTSASQIAGNTSA Y*HTQLVFLCEDGI
10926	24827	A	11016	1	251	PNCIVHSLRTGTLNFTILLLCFTFE*F LNKNLIFESQKKKKKKKKKKKKKKKK GAPLKKTPGGPKFYPASKKKISPQKGG
10927	24828	A	11017	234	1	DINKGSWVKGIPKPSVLSLQLFCNSKI FPN*KLIKKKKNPNEPGVMVHVCNPSTSG GRNGQMA*GQEKFASLANMAKP
10928	24829	A	11018	107	342	FQLCIGAIVHCFLFMQHQSEYKSTDHRA SSKCHTVQGSQLSTSASFQK*THKKKK KKKKKKKKKKKKKK*KKKGAGSF
10929	24830	A	11019	264	1	CFKPLLFKYPGIIKAVNLPVSTASATFH KF*YVTFSF*KKFLCVGGKTGSHSITQ AECSTGIKAHCSELPGPGDTPPTSRRV AARA
10930	24831	A	11020	1	288	RTRGTSSRSRAATLFFFFPFKKGGFFNG NLPTTFGKLGNNKKFPLNLFPGGPLPHG GLKGPGAPQVPLFLKKPQTSP*GLR EGPPLKKFYLF
10931	24832	A	11021	115	287	STCEISFGCSRGCWDYLMVWEFSHFYF *FLETECCSVA*AGVQWSNLSSLQSLHP E
10932	24833	A	11022	186	1	RPKVDKTAKMGRDQSRKA*NFKNQKASS PPKEYNSSLAREQNWMENEFELTEVGFR KSVITN

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10933	24834	A	11023	180	353	IFCFCIFS RDGV SVC* PGWSQ SP ELMIH *NTKIS* AWQR VP KIPAT QEAAGESLE PG
10934	24835	A	11024	155	1	PQARRGGTCLQS*LLRRLRLR QEDRLSP GV*GYSEL*SCPCTPAWETERLV
10935	24836	A	11025	22	325	KLILLYDPOLTFIFLNTRAVVAHCAFCC WPIHFVFGNYGFVFSCLFTFIFVYSGKA DLFFKPKKKKKKKKKKKKKKKKKKK*KGKG RGLKNSWGGPIFWGFPK
10936	24837	A	11027	127	259	GQVQWLTPV IPTLWEAMVGGSTKL RSSR PFFSTP*PCIVMILY
10937	24838	A	11028	37	408	TASGALFFFKAAGKRGDFKTEGAYQRO RTIFKNKKR ARREKTGRENL RGN YKNMG RGLKTPRGALGGPYLDKKGPLRGKGPFQ GTLLGGGP KIKI QGTL*IRR NYWP YIR RYNRFKKR QKNM
10938	24839	A	11029	146	3	LLVLKDLP RIMVR SA PTYI YYI TYLYI YYI YTHTHTHT FIT*VLFC
10939	24840	A	11030	268	435	LMCLRNETN*F*KVE*WLGAGAHTCNPK TLGG*GGRIA*GQE FETRLRNIVRP
10940	24841	A	11031	322	2	KLPHLQQQCVKVN CYKPFLKNGKIGHGG VCL*SQPLRRLR QENHSNPQCTS AWT QRDSVS KNKKRKME KYFSSVRQNKPVK HTK RMSPTKADTKS THCGGGRV
10941	24842	A	11032	251	380	HKRLHTI YYFVPLKKMGP GLVGHTYNP STLGGQGGQIT*GRE
10942	24843	A	11033	64	324	FWFFFFFFF LNPPGGGKKKK PPPPL GKKKKR GKKG KFFS PPRGGGGP KK ISLK RVLK FF*NPPGGT KGGGP FLIPP GSP
10943	24844	A	11034	420	534	CPGVVAHAYNPSTLGS*GRQITIDREIE TILANMAKPH
10944	24845	A	11035	196	1	KNGHSLPPGPQKGTPFPKKKTPKINLS ELGKS KAY SWPGTVV HACNPSTLGG*GG WIN*GQEFE
10945	24846	A	11036	10	248	PSDR*LFSTNHKDIGTLYLLFGA*AGVL GTALSSLIR LELGQPGPNLLGNDHIY NVI VTAHAFVI IF
10946	24847	A	11037	32	405	DYVSKRKEK EKKRN VILETSISSH LV WMLCSRYHPLIKKRSSVRILIA LLCPQK VRDMS*GIGSKKQ CWDSWLSI WIKM ESD PFLIPYPKINA*RLKDL CERINLKII IK REYLHDY RVKKV
10947	24848	A	11038	337	448	KNPRGFFGK NPFWGGPF GGPPPK KM FG EKKKF*FKRSKKKKKKKKKKKKKKKK KKKTG
10948	24849	A	11039	307	415	RFVCSTIKV LRDLS DRSNPGRV LSTS NSSLK*KKK
10949	24850	A	11040	213	403	VH RGIKYFLNKL PDFP QTFKK*G*RL GAVA HACDP STLGG*GGWITLGQT FETS LTR MGKS
10950	24851	A	11041	104	2	SAFFF*ETE SC SVAQAGVQWC DLSSQL PPPGFK
10951	24852	A	11042	177	3	AYTAYICVCIHIYLYK*MYICINVHVCK ITYLYIYKYL KYNAIY LHIGFFSFLHTI S
10952	24853	A	11043	314	395	TVYILNLSINSVQSVL LS FVH RLHQ PR GRVQWLTPV IPALWEAQAGGSP*VRI SQ

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						IKTPA
10953	24854	A	11044	310	403	RGKGGKKPRNPAGGKS*ALTKKKKKKKK KKKKKKKKPGGALKKKPRGGQKKTGGGK KKFLPKRGAKKPPGDFGKKKNQIGGGEK RGKTPPKKKP*GKKKNLKGKGGKKTPK SGGKKFPPRVRV*KKKLPPGG
10954	24855	A	11046	181	3	EGPLSLSLLFFFF*RQISSLLLRLKYSG TIIAHCSFKFPSSRNPPTSASQAASSTTG VHH
10955	24856	A	11047	392	41	KESRSLSQGGREKGPFKFLAPPAPKFKR IFRPHPPLKKLGPKGPPPS*ILSLKKK GPPPIALARWFWNSCPQGFPPPGLPKRLG FKGGPPPPPLF*KKKPPFLGGENQKVKN FFFFF
10956	24857	A	11048	147	307	TVIFVFIILRKGLTLLPRLESGMTMAHLK S*PPGLKQSSCHSLLSSWDYRRRRG
10957	24858	A	11049	118	1	HGKIPSPLO*HK*IAGYGSACLQLSQR RLRWESRSISI
10958	24859	A	11050	54	284	RKIRRGGHLWNSNLLGRLRWEDLLGRLR WEDRLSPRRGGCSEPRLCCHCPAAWATE* DPVSKKKKSLFVEKPKQGGG
10959	24860	A	11051	130	340	HNHMFAAHGSRINFDDFFFFFFERGFP FCPPVGAGRATHFGLLEPFPSRV*KQYYW LGTVAHVCNPSTLGGHVGES*GQEFKIS LANIVK
10960	24861	A	11052	140	337	NIIMFFFFFFETVFSILLGLEGKGTIWV N*NLCPLPG*GDSPLGCS
10961	24862	A	11053	197	428	IRSINNPVTASQYSSEWKSHIPLILQN LDMIKFSEEGMILKAKIGLLRQTVGQVNN AKEKFLKKNQSATPLSI*IRK
10962	24863	A	11055	180	1	ATTIALLYSRLGDYARRFHLRRKKEQWQG MVTHVYNPSTLGGQGGRTA*TQEFKSSL GNIA
10963	24864	A	11056	158	426	FFPLPLPLPTVSLFPRSPSDAEPKLDCT AAISAHCNLPA*FSCLSLPSACNCRAP PRLTASARGAGIADGVSFTQCSMVPRL ECSV
10964	24865	A	11057	220	421	YALHLNMKNNSYF*MRKKKKKKKKKKKK KKKKKKKKQNKKDPGGAVYKKIP
10965	24866	A	11058	162	464	SCSVGLKLFSMKTSLALSYYCLLLLLTL HYYYYYYYYYYY*SLVFM
10966	24867	A	11059	1	134	APENRVDPRVRKTLVPLIPLITTLANP CKKD*YPYYVKSIAC
10967	24868	A	11060	382	273	SSCL*PQLLRLRQEDYLS*GA*GCNEI **CHCSPAIVTEQDPVSKNIHTYIHSQS INYGSMIGIHEQKGIIADHKPIIAEPE DSTYPRDHT
10968	24869	A	11061	298	378	SCSASPCCCSSRHGWSPCG*QTCLLLAIA LRCLPWLRREAGALHHTGPGCRLFDHAMLQ AHKAHQVLVIDTYQEIGENYIPQDQKNSF LLESHTSFCFSIDSITTPSNMEETQQKSN LKLLRISLLIETWLEPVRFTRIVANN
10969	24870	A	11062	39	486	RPTRPDAYHIVKPSP*PLTGALSALLMT SGLGMRFHFHSITLLLILGLLINTLTIYQ *WRDVTRESTYQGHHTPPGQKGLQYRIM LFITSEVFFFAGFF*AFYHSSLAPTPQL GGHWPPGTGITPLNPLEVPLLNTFGILAI GGSIT*AAH

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10970	24871	A	11063	269	429	ATWQKLPLOIQKNYPGLGLVAHACNPSTLGGQGGRIT*GQEFLNQPNMVNTH
10971	24872	A	11064	248	65	IIEGQAAQWLMPVIPALWKAEEAGGSPEVGS SKPA*PCDPPASASQSAGITGVSHRTQLILNS
10972	24873	A	11065	176	1	LFPPPKVPPWGNTQFKSICLYTTNFFF FETESRSVARLECRGTISPHCKF*LPGS RE
10973	24874	A	11066	2	397	MVLWTAHLRAMAPGSRTWGLLTFAALLC PWLQEAGAVQTVPISRLCDHAMLAQAHRA HQLAIDTYQEFKETYIPKDHKYSLLND SQTSCDSDSIPTPYNMEETQQKTNLEVL RMSLLEIDS*LRPAQSNKR
10974	24875	A	11067	172	399	QILYL*KYAYTVTMQHLSHPIL*KKKKKK KKKKKKKKKKKKKKKKKKKKTGG
10975	24876	A	11068	192	3	PKLTPMLKLIVPHITLLPLT*LSKKHII *INTTTHSIIISIIPLLFFNQITSNLFS CSPTFC
10976	24877	A	11069	204	345	DKSGEHHSKTSSIQKNLRLGAVTHCNPR TLGGQGRWTT*SQEFTSP
10977	24878	A	11070	3	416	HELPQPLRVLWTAHLGATAAGSRSTLLL DFALLCLPWVQEDGAGQTVP*SRLFDHA MLQAHRSHRLGIDTYQEVVETYIPEDRK LSFPDDCHTYFCF*HSIPTPSHLGETLL TSNLELLRICALVLIIDSWEPAIRLTS
10978	24879	A	11071	108	2	PSPFFFFETECSVTL*AGVLWRDLCSLQA PLPGSSC
10979	24880	A	11072	400	278	KVK*LRQENQWNSRGRDCSEPRSRHGTL PWTTEQDSIPKNAKTKPYKIS
10980	24881	A	11073	139	3	KLAGCGRAHLSFQLLRRRLREDHLSPGG *GYSEPWSRYCTPASRA
10981	24882	A	11074	17	421	DHVIGQPRWLMPVILALWEAEPGLLEP KVQDQPGQNCKSLSLLTIKKKRRENFP RGQTQLCSQLLRLRVGCCIDPKLNCL PAWMTERDPTFKRE*KKNDVLEAKNFFT ILTFMNTTKEKMVAQRIGSLFHG
10982	24883	A	11075	412	1	QFFFGLGVCCPTQIFGVGVKKGEKKKKRG FPPRVFFFFNPQIFSPFFFFPGPFFFFLGK FPPPFGERFLFFSKSKFFFPGVFKRGFP FPPKNNFFF*RIF*KFWFSPPKPFFFF FFFF*DRASLCHPGWSTVAQS*LTSC
10983	24884	A	11076	279	410	VFCVVAGRDGAPGVKAHFPAQKPWDGG FPGP*SAGVGPPPIPR
10984	24885	A	11077	12	386	IAHLLLFSFYHKDTGTLYLFGAGAGVL STALSLLIRAEGLQPGILVGNDHIYNVI VTAHAFGIIFFIIIPIIIIGCYGN*LATL IIIGAPDMAFPRINNISFGLLPTSLLLL AYAIVDAGARTGW
10985	24886	A	11078	412	3	LAIILSLSLSLGFPYSLRYKNIKIRPINN PTMASKCSSKRKTRTSFTLQNQLEMLKL IEKSTAKAKRKLVRPLVPSQVVNAEEK FLKEIKSAIPLNIQMIR*QTSLIADMEK VSVL*IKDPTSYNIPLSQS*IHSK
10986	24887	A	11079	78	443	RHRLPSDTCLTAAVP*PCKGSKKKKKKK KKKKKKKKKKKKKKKKKGGGGFKNS GGGQNFAAGGKKIFFFFFGGVFKNPPLWIF WKTKFFWGKISGQLSQKKLSLWGEKKI FWGCGGETSF

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10987	24888	A	11080	395	2	KRVPKKPKKNSPPGGRKGGSPP*SPPFGGPDPQIF*VGGFDPPWLTPENPFFFKKKN*PGKGGMPILKSLGGWGKKKIFTPGGGLPKN*KETPPPPPAGGGKKKIPFPKKKKKKKRAAADLDELVPTRP
10988	24889	A	11081	24	182	TVSTTKCFSLLIPYYGRKDME*KI*TIQKKKKKKKKKKKKKKKKKKKKKKKKKKRGGPP
10989	24890	A	11082	173	3	NNVICYILYIPSVPVKYTTLNMRGSAFFFFFFFIF*DGVSLCHLGWSAVARSWLTA
10990	24891	A	11083	284	391	SVAHACNPGLGG*GEQITRGWEFETSLTNMEKARL
10991	24892	A	11084	257	3	IKKLREVNMLGWLYYMREEARPVDYVHWRGPEYSSLTKTIRNVIVKGHQHY*KASA GRGGSRL*SQHFGPRRRADYLKSGVRDQ
10992	24893	A	11085	42	171	ARRMRAGIHRVSQEGLDLLTS*SAHLGLPKCWEDRREPLRLA
10993	24894	A	11086	176	325	FKRSKKKKKKKKKKKKKKKKKKKKKKKKRGGALKKF*FKRSKKKKKKKKKKKKKKKKKKRGGALLKKFLGGPQISGGGGKRFFFFFF
10994	24895	A	11087	67	379	KKKKRKPKTKRTGPVRQNVRGRSLSPGRAPAEQPQGGSTESPPLLVGRCLILGLREPVGPPAAAYGRFLRDYMSIQQKLEKORPQ*GLPSLTGAELIKH
10995	24896	A	11088	128	326	KKKSGGGVFFFIIGGGGHFFGGGRFFFFFFLGGFFFFKLFFFF*EKFFFLLGGNLVKHSSKSSSWVGW
10996	24897	A	11089	109	2	KTHSRPGTVAHTCNLSTLGGQGEWIT*GQEFEETSL
10997	24898	A	11090	52	347	DHSLELQMKLAYASAQAATKCHRMMGGLNNTHFLFLFLSLLLLKQSLALPPRLKGRGPILVN*KLPLRGKRDSPASPPQCVGITGLAHPPRLLILFF
10998	24899	A	11091	386	48	IHLQQPLQICLTKFFTNTKNPHLFLTGCPTYALIFLCFGALVKTGFHHVGQAGLQLVPLCPDRLGLPKCSD*RREPYPHPAKKQFFIDRVMLCYPGWCALGINPSSPVGLPKR
10999	24900	A	11092	164	3	VYSLLLRCPFS*ALTAKFINRCTYIHVC MYMCEPYAYTCLYTSTHIHVCMYI
11000	24901	A	11093	148	325	CLKLQPFGLVVAHACNPSTYFISYQ*LSPVIPALWEAKTGGSPEVRSSRPARP
11001	24902	A	11094	162	3	LLGLKRPIFFFWGKGKFFFFFFFEIESPSVAQAGVQW*CNLGSLOPASGRV
11002	24903	A	11095	259	358	LRPGTVADTCN*GQARWLIPVIPALWEAKAGGSLEVGSLSRLAWP
11003	24904	A	11096	254	2	SWGFIPEERERERENRYWDRQQGHAIVSNIVINAFLYRYTEREKPGVSLSPRVECSGMIVAHCNLSLVGSSHSPAAS*VAGTTG
11004	24905	A	11097	132	3	KKKKRQPRVVAHACNPSTLGGCGGWIT*GQKFRTLSLVNMVKP
11005	24906	A	11098	2	455	LNLEQLIEPLEVLWTAHLEALDPSSRTFVLLAFALL*LPWLQEAGAVQTVPLSRLF DHAMLQAHRAHQLAIDTYQEFEETYIP*DQKYSFLHDSDQTYFCFSDSITTPYSMEE TOQKSNSLELLRIYLLLIESWLEPVQFLSMSFGNNLEYDT
11006	24907	A	11099	2	375	QLPEPLMDLWTGDLVAMAPGSRTSLLIAFVLLWLP*LQEAGAGQTVPVVSRLFDHAM

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						LQAHRAHHLAIDTYQEFEETYIPKDQKY SLLHDSQT*FSDYIPTPCSMEETQQK SNVELLRICLLV
11007	24908	A	11100	1	359	LQLPKPLTVLGTAAHLPAMCLAYATALIL GCALLCLA*VE*ARAAQTVPQSNF*DHA MLQAHRAHQLAIDTYHEFEETYIPQDQK YSFLHDYQT*FCLSYSIATPSNMEETQQ KSNELL
11008	24909	A	11101	1	370	LPEPLTDLWTAHLVPMAPGSRTSLLLAF ALLCLPWLQQAGADQTV*SWLFDRAML QAHRRAHQLAIRTYQEFEETYIPKDQKDS FLHDSQT*FCF*DSIATPSNMGETPQKS NLELLPISLLL
11009	24910	A	11102	2	361	AHLIAMAPEGYRTYLLLAFALLCLPWLQE AGAVQTV*SRFDHAMLQAHRAHQLAI DTYQEFEETYIPKDQKYSFLHDSQT*FC FSDSITTPCNMEETQQKSNL*LIRICLL LNESWMEP
11010	24911	A	11103	8	366	PLRALWTAAHLLAARAPGSRTSLLLAL CLPWLQEAGA*QTVPI*SLRLLDHAMLQAH RAHQLPIDTYHEFEKTYIPKDHKHSFLH DSQT*FCF*DSIATPSNMDETQQKSNLE LLRIFLL
11011	24912	A	11104	3	341	EPLRLRTAHLVAMAPGSRTYMLLAFAL LCCLPWL*EAGAAQTA*PLFR*FDHAMLQA HRAHQLYIDTYQEFEETYIPQDQKYSFL HDSQT*FCF*DSIATPCNMEETHQRSNL E
11012	24913	A	11105	240	329	RNWPGAEAHYYPSTLGGRGRQIT*GRG FE
11013	24914	A	11106	2	316	HEERERERERERESAIVRQIHTQGEGLT ELVFPYRRPAPSGLKFTFVYVQEHILGV GGNGLSPLQIGVILRDGRGLAHIRCGR NKILRILKSQGRAPDLS*DLY
11014	24915	A	11107	169	1	EDCHHSGLHSKQQKQPAWPSMVTHTCNP NTLGGRGGWIT*GQE*FETSLTNMEKPCL
11015	24916	A	11108	192	355	GMSLTGHSNSYIIILNLFNLP*PCVVAHTCN PMTLGGQGGRFT*GQE*FENNLLAYRGK
11016	24917	A	11109	145	383	EVNKKDKGKYHSQGIQSFSYVAYVYFRK LIYTMMTIVNSALLYTELVICQGRRLV FDFGF*FWFFETECSVVIQAGEQ*CDLG
11017	24918	A	11110	199	400	TRAGFFFKKFLKGPGPGAPPFNLNFL GGRGGGGF*IPKKKIYPLLPFLKVQKT PSKPPFFFFFFFLRQVLLCCPGWSAMAR SRLTRA
11018	24919	A	11111	373	177	QFETSLGTMSPGSFYLN*KSARCGHTC MRFQLLQRQSR*EDHLSSGVHRC*SNP*LH RCTTTWVTK
11019	24920	A	11112	204	399	NHFWDVVYHFSSPFFFFFEKNLCSVPR AEDQGMNLS*LNPLPPGLKQFFA*PSQE AGIIGPGHH
11020	24921	A	11113	192	16	KKTENNKR*RGYGETETPAHCGRACKLG *PLWKPV*QFLKKLKMKL*PYDPTIPLPA IFS
11021	24922	A	11114	113	369	AGGQGPNLFLQKPGPPGLKGPPPLPLPG GGNYGGGPPSRGIF*FFEKKGFGGVPKV GPNLRG*RDLPAPPSSKGAHPLGNGFFSR N



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						FFFFFFF*FFFFVVFTQFHLS PRLECSGTISAHYNLHLPGPSDC
11041	24942	A	11134	361	2	ASQSAGITGVSHRTRPTHGFKDT*RKPA EPEVTIH*I*ITLMSCNIESPEKVCADL IRGAKEKNLKVKRPAGTPIKASRITTRK TPCEGSNTRDRFQMRHIKWLTDLHSPFD GRVGRV
11042	24943	A	11135	1	370	IRQTFFQKREIVGIIILCYWNVGYYSQLH *SSRMLWIFHFYRVYISVKVILVILVPH EKKKKKKKKKKKKKKKKKKKKKD
11043	24944	A	11136	273	2	GGRAGQQILFCRGIVLGPPRSCQCTFRS PPGIAL*PWECSFLPPALKIRFPSFLPF FFEMEFSRLSPRLECNVTVAHCNLRLP GSSNFP
11044	24945	A	11137	130	354	GQLNKLSGPYPENVGTYLPLVLINPLAQ PVIYSTIFAGTTLITALSSH*FFT*VGLEI NMLAFIPVLTKKKKGGPL
11045	24946	A	11138	366	2	LVEMGFLRVRQNGLYLLTS*SARLGLSK CWDYRREPPCPASDWVFILTSPLIHALD GKEHTHTHTHTHTHTGLGICQSSLGKQS GGWGWL SANRGQFSPFAVCLVVSFLPEV PVVTSALFT
11046	24947	A	11139	228	1	CRAGRGLPAAVLIILFPPLIPTSKYLI NNRLITTQQ*LIKLTSKQMAIPNTKGR T*SILVSLIIFKATTNLLG
11047	24948	A	11140	157	337	HITPPPHITCPERPSIRHNSIYYLKRYC LLRIILSLLPLQTSP*PLTGALSLLLMT SGSLM*SHLHSITLLALRLLTYTLTIYQ *WRDVSRSRHYTQRHHTPPVQKGLRYGII VFTTSKDIVFSLGF*AFYHSRLAPTTQL *CHWPPSGITPLN
11048	24949	A	11141	188	3	IPTPGGPPPLPPQKVLFKPGNPRAPPGV FFFFETDSRSVVRLECSGVI*AH*NLA FRGSR
11049	24950	A	11142	224	3	SVSPSCISNTHKVDVRSSALLQESTSSR EVMTGHFHYLIYET*LRSLAQSARLAC SGTISAHCNRLPGSSN
11050	24951	A	11143	262	371	SYCGPGVVAHAYNPSTLGGRRIT*GQ EFETSLTN
11051	24952	A	11144	244	379	TIGKQRCHAGIEEVSDSSQAPWLKPVIP AL*EAEAGGSLEPRSLR
11052	24953	A	11145	1397	1565	DRLESILLEMHITPGVYPNQWNTNFYLFIY FEAESHSVAQTGLQ*RHLGSLQLPPPQV
11053	24954	A	11146	284	1	GRGRQGGDSSGKGEGNRAMIDITGGLVGK GQGAGEAFVVEKELRGFKVEGEGDMD KERVVD*GL*GGRERERERERERERE RERERERERESLV
11054	24955	A	11147	64	286	THALAWTRNQRIGSGHGMCLYSHLLRK LRQNDHLLTPGV*KCLEL*LHH*TPTWTTP KPTAKAIFFFNLKKKDSWD
11055	24956	A	11148	230	358	VSVSLIIFIATTNLLGLLPYSFTPPTQLSINLSMAIPL*AGAV
11056	24957	A	11149	81	367	QTLRTKMNKNVVASLIDPTILGLPAAEL IILFPPLLIPSCKDVINNRLMTTQQ*LI ELTWEQMITHNTKGRT*CLILECLIMV IATTKLGLLP
11057	24958	A	11150	257	2	SVCAVITKYLRIGCFADAADTQRPLPPA TVKLTMFNFIAITHGEPLGCIF*LFVDKV

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						PKTAENFHALSTGEK*FSYKGSCFHRIL P
11058	24959	A	11151	257	1	WRCGEKETLIRCWWECKLVQSLGRTVWR FVRELKLELPFNPAIPLLGIIHPKEKK*L DPCTCMFIVALVTIAKMWNQPKCPSMDLV
11059	24960	A	11152	17	367	NHKDGKKTEEKQSTSPPQKDCCSSSPAM EQSWTENDFDELREEGFRRRSNYELQEEI QTKGKEVKNFKN*DECITRITNTENCL KELMELKAKARELCEECSRSLSSRCDOLE ERVSA
11060	24961	A	11153	213	2	TFCHFFFFFETESGSVAQPGVRWCDLGS LQAPLPGFTPFSWRQRQLQ*AEIVPLHSR LKLHFKKKAGVFSC
11061	24962	A	11154	1	347	GTSNHFPFLYTYQVHNSTDYPRNRCCLN PSLRFHTSSKPLPARPHIMTHQSHAYHI VKPSP*PLTGALLALLMTSGLAM*FHFH SITLLILCLLTNTLSIYQ*WRDVTREST YQG
11062	24963	A	11155	223	3	YSTNLKILRNHFILFF*DRVLLCLPGWS AVASSRLTANSASCLSLPSSWDYRRAPP HPANFCTDRFHVGQVG
11063	24964	A	11156	143	1	RGFLNOCPSQNFPFFFFETESCSVQTQAG MKWYDLS*MQP PPPPRFKLV
11064	24965	A	11157	149	355	LQPLPPGFKRFSCRLLLTSDYRKDVDS ALLSNYVT*KYISKTLCRHQSPPEIVREF LTAMKSHKLTKVG
11065	24966	A	11158	156	370	RSDGCQKIPRNMGGWSVLHHTVDEQ*G PNRYIKKCSASLIIREMHIINTVRRCLT PATMATVRRKTTSVG
11066	24967	A	11159	298	4	HFQVVIMWRQLVKGRLQAQKNAFTDSH THLCYLCKCVYFCVCVCMCICVFVCV*SR AL*SLYLFLCIKAVKAGHSVSGLESQH YGRLRQADHLRSGV
11067	24968	A	11160	364	285	NSWGKIKILKGK*PPPPKKIFFPKYPQS FFLSPP*KKKTTNFPHPRKYLSPPGIFLK APPPLIFFFFFFFFF FFWG
11068	24969	A	11161	198	406	KSVYMTLKKKRGSFHERGDVPAICNFFF *IHIYMCVYIHICVYIYIYTHIYIYTHI QIYIYIYIYIYI
11069	24970	A	11162	95	376	KITTKHNIARTNPYTFCLMN*LEITLQG EPKLRRPPKPDKKKKKKKKKKKKKKKKKKK KKKKKKKKKKKKKKKRGGGFFKKPGGGP KIRGGEKIFFFLGGD
11070	24971	A	11163	343	391	WR*LSSTNHNDILTLYLLFRARAGVLRS AVSLLILAEQGQPGGNLLGDDHIYSAI DP AHAFAIMFFIVIPMIIGGFDN*LLAVRN GAPEMAIPHINNISC*RLPSSLLLL LAS AIVEAGAGTG*TAYPPL
11071	24972	A	11164	1	158	QPMTFNRGPPLSP*PLTGALSALLKTSGL AM*FHFBHSITLLILGLLTNTLTIYQ*WR DVTRES
11072	24973	A	11165	265	466	KLLTSLSFFNLLRETNQVGLLELSQAKY KKTPLRLGTVAHCNPSTLGGQGGWIT*A QEFETSLANMA
11073	24974	A	11166	204	458	KRCLLPLPPDSNTOSQCREQIGRAIR KILTETQNIKRLKTEKQLLKLLE*SGK ITAHCNLDLPGSSSPPTSASQSAGITAG

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11074	24975	A	11167	256	3	KILFFKPGVLSPPPWGGGVNFQQLMPFQGG PPKKKRGPPLSPPKKGPF*****ESR SLLPRLECSGAISTHCNLCLRGSSRTRG
11075	24976	A	11168	1	457	HRTPSVRTPNCRGDPVRSTNHKDIGTL YLLFGA*AGVLSTALTLLIRAEGLQPGN LLGNDHIYNVIGTAHAFVIIFFIVIPII IGGFGN*LVPLIIGAPDMAPRINNISC *LLPPSLLLRLASAIVEAGAGTG*TVYP PLAGNYSHPGAS
11076	24977	A	11169	343	428	GR*LFSTNHKDIGLLYLLFGA*AGGLST ALSLLIRAEGLQPGNLLGNDHIYNVIGT GHAFVIIFFIEPIIIIGGFGN*LVPLII GAPDMAFPRINNISF*LLPTSLLLLAS GIGEAGAGTG*TVYPPLAGNYSHPGAYV DLT
11077	24978	A	11170	91	2	PRQDPS*****TESGSVAQAGVQWCDSL
11078	24979	A	11171	219	1	IFKSKILCLPPPPEPN*****FFMRRHGGACCSPSYLGG*GERMT*ASRV AGITGVCHYAWLIFVFL
11079	24980	A	11172	292	365	RI*SLGQAQWLTPVIPTLWEAKVG
11080	24981	A	11173	251	1	ICDLQILTHGITTCKVKGMLTTLFVSGIT FLIHHSLAIKFGV*KNPS*LGTVVHTCN LSS*GRRGGRIA*AREFETCLGNIVRP
11081	24982	A	11174	200	407	KIFETDVYVKCSNILCLWASISFSNYFG GPFYLNLL**FLSYFSFLETESHIVAPLE CSGMILAHCNLCL
11082	24983	A	11175	11	155	STNNFLFSETGGSVVLQAGVQWPGLDLL ASSHSPASAS*VSGTTVDAA
11083	24984	A	11176	140	1	PSTFPDVVAMRRVSCLSKGDKGQV*WLT PVIPIWEAKAGGSPEI
11084	24985	A	11177	210	1	TDEELLMDEQRK*FIEMESTPDEDAVN IVEPMPKDLEYYINVVD*VVAGLKRTDC SFERSSTVGKMLSN
11085	24986	A	11178	133	148	STSTR*LFSTSRSRKDIGALHLLFGA*AGV LGTAVSLLIRAWLAQLGSNKEA
11086	24987	A	11179	236	1	KFWKKDPLTKGGCPLKKGGGGIFSKKK KNVFFPKKKFKGGKKKNFFFFKKKKKK KKKKKKKNKE+LFISFAHIAVHL
11087	24988	A	11180	210	1	QSLGQEQLQVFPLFQGP*PNYLDKGEKW IRVGKIWGHLFFFFETESRSVAQSPRL CSGAIAAHCNLCLP
11088	24989	A	11181	292	348	KKGALFFSPGG*KKNFPPGGKKKGPLFS KKKKNPP*KKPGEKEKTRFFFPLGGLG GFPLAPGGKPPRNRLAPPNPGGKKKK KTPFSQKKKKKKKKP
11089	24990	A	11182	168	3	KPEASMLRMDFFF*EAGSHSVAHAGVQ WYYCSSLQPPTEPELSDPLAPSSKVGGIT
11090	24991	A	11183	87	351	KGIKWSLNTIQRGVQPHLRSYNSFFSFF S*DNVLLRLECGSTTTAHRSLNLPGSSD PPTSASQAAGTTGMHCHTRLIF*ETGFH HAVQ
11091	24992	A	11184	55	344	TSNLCCFFFFFWGEKSPFLPPGGDEGPL FGQLDTRPWGIEKIFFAPP*KGKRGVP PGGEFFKNPPAPKGEGPPLS*KK*NQPGQ GAPPYCYPFLGGGAKKIFSIPOGRVSN* PKRGPSPPGGKKGDFSPQKKKKQRFR

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						EV**PNSPSGAP
11092	24993	A	11185	344	190	LVETRFHRVSDGLNHLTL*STRGLP KCWDYRCEPPRANTANSLNFP
11093	24994	A	11186	135	3	IFPKVFGGPFFFFFF*ETESRSVAQVG VQWCNLGSLQAPPNGFT
11094	24995	A	11187	305	14	IMLITSIRRSLSTAEGILSRLRICG RVAKYLINNRLLTRE*LIKLTSKQMIT ILNTKGRT*SLILVSLSVVYGYHLF*G* FD*SLLY
11095	24996	A	11188	198	1	LEQTFNMMFPPNKSTISIPSFGFLFKIS FPFLFFF*DEVFLLLSRIECNGTILAH CNLCLPGSSD
11096	24997	A	11189	352	3	QLCNTPLPKTNHAMLTSNNANTLIYRRS AIAAASSPPILPASKILLNSRLITPHQ *LIKLAQKOMIAIPNTKGRT*SLILVSL IICFEVSLISHCWVVISRLLMRYLEVGI NRGG
11097	24998	A	11190	270	137	CIINRLYVCVYIYIYIYI*IYFYMYV YNILCILGHRRSEGV
11098	24999	A	11191	18	342	ACRKRMSSKFALRATGNCCYYSCFCST SFPHPK*MPCYQKKKKKKKKKKKKKK KITV*K*SKTKKNIKGLGAR*ELSLA*L LGEPEPIFAKGHPMLKWETICKRP
11099	25000	A	11192	169	3	ERSGIIRVYQD*NQCLAWSLA*KIIHPW LAAVAHTCNPSGGRHGWT*GQEFK
11100	25001	A	11193	407	1	KRACFRWLTLILLISTLWEAKQENCLNAGV HDQPGQHGETPSPKIKKSAWHGGPRL* EVRWED*LSQGG*GYSEPCSHCTPAWA TERDPV*KQKRSIPWKELASERKDSGRC RWLVREMWPSCQASVIQVRISF
11101	25002	A	11194	110	412	VCGFRLLHSPIALMPLLMPSYFRRHSNT EIKPISNPVASKRASERKSCTSLLNQ KLEMILKSEEAT*KAEVGQKLGLLLHQKV SQVNAKEEFLKEIESA
11102	25003	A	11195	34	155	AWHEGMHHVSDGLNLLTL*DACLGLPK SWDYRRKPPCPA
11103	25004	A	11196	289	453	NQPGKSFMISSSTHFMMETLVHAGV*W LDLGLLQPPPFRKGFSCLHLPMSGWDR
11104	25005	A	11197	177	432	KWEKQAQTLGGGNFPKGPKTRVGKNFEK LKGNNPPFLCL*KRGKGDTPWKKPAPS GERGIPGKGGKTGPPGFKGPMEKIKRG K
11105	25006	A	11198	139	3	AMVSLSPRLECSSMIMAHCDSLGSGLSSD PPTSAT*VARITGMHHP
11106	25007	A	11199	150	492	GDPLPGHHPV*EVRRPFARQLPRLRSEE PLRPVATPSGK*GASLSGSHPIQEGGGG GQPLPGHLPHPGWRSGVKPPPGQSARPG GEGHLLPATPTGK*GGPQSGQPHLSGGR RE
11107	25008	A	11200	239	64	YQKYYYYYYYFF*ETESRSVARVKSSGLIS AHCNLHLPGSRLQLCLFPTSAVFGQESH IT
11108	25009	A	11201	31	396	ILTMREIVHIIQAGQCGNQIGAKFWEIT DEHGMDPTGTYHGDSLQLDRISVYYNE ATGGKYVPRAILVDL*PGTMDSVRSGPF GQIFRPDNFVFGQSGAGNNWAKCHYTKG AELGDSVLDV
11109	25010	A	11202	85	407	VLLPHSEALEGADTMPHSYPALSAEQKK

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						ELSDIALQIVSPGKGILAADECVGSMAK RLNQIGVENTIQENRRLYRQVLFNADDRA KKRIGGVIFHETL*QKDDDGVT
11110	25011	A	11203	302	115	THLDHVAIYLSITYLSITYLHSIYHL SIYLCLRF*LID*DRVSLYFSGWLQMPGL KPSSCF
11111	25012	A	11204	130	348	GNAYGGPCSVLVQVRT**IPALTFESTCL DSKFQRDLVTLRTDFSNFTSNTVAEIQA LTSQGESGLDGALGWGQ
11112	25013	A	11205	232	62	ISARNEGFNTLN*RTFFFFFFSSHCLSR LECCGGMILAHCNLQLPGESELPGRSQSLQ
11113	25014	A	11206	161	2	KKKGFLPLPLIEPFCIQEIQRLRLGAVAHT YNPSTLGGRGGWIT**GQEFKTSLAN
11114	25015	A	11207	251	3	PNHLPKAPSPNTTLRIRFQHNLNRGAQQ TFGLQHKLTTSKOMITIHTNTKGRT*SLIL VSLIIFIATTNLLGLLPHSFTPPTTQL
11115	25016	A	11208	145	287	GFRLKLK*INQKYSFLKKKKKKKKKKKKKK KKKKKKKKKKKKKKKKKKKKKKKKKKKKKKK KKKKK
11116	25017	A	11209	436	110	ISGRGEQKFKYFSPAPFFRGINPPPLGG E*NQNOLKPP**KKIFLGSQPKVPKKKGQPO KILKKGPGGGGPPLFPPLGLGGQGGFPF SQGFKTPPGKKKPPPKKKKKKKKKKK
11117	25018	A	11210	217	2	DKWSVLIHINYNIILSSSLVHVLFKYLEN* K*KKNLWPGMVAHACNTNTLGGQGGRIV *AQEFETSMGNTVKC
11118	25019	A	11211	146	3	OKVSHAQYRCLSWSGYFFFILFLETRSRS IAQAGVQWRDLGSL*PPPA
11119	25020	A	11212	187	384	GLICFYLTCTFYFIFLYFSLLCYVM LCYVLCYMLCYVMVCYMLCYVI*DRV SFCHPDWSAA
11120	25021	A	11213	373	482	MIKLRHRLGTVTAHTCNPSTLGGRQWIA *GQEYKTS
11121	25022	A	11214	64	362	ITGVSHFTQPLFIGGLALSPKLECRGM IIAycopnFELPGSGDSCHSLSPSSWNRY MPCMPS*LKKNF**RQGLTVLSRLEKDYL *DFAALSRSFPWGR
11122	25023	A	11215	181	368	CDSAVPLLDIYPTEFKADLKKIRIPMFI IALFAVAKR*KQPTYPSIDKWIKKLWAG CGGSRL
11123	25024	A	11216	268	369	TTRPDMVVHTYNSSTSGGQGGTT*AQO FKTSLT
11124	25025	A	11217	90	3	IGQAO*LTPIIIPALWEPKSGGSPEVRSL
11125	25026	A	11219	277	272	SLTAPGL*SQLRRRLRWEDHLSLQGQSSF SEP*SCPCTPAWVTO*DSVSKKKEKKKE KKRKEKEVNVQTPKATESPGQALIGSHS LQVQKRVYAHPII
11126	25027	A	11220	19	343	LELEVEPEDVSSELLQSLDKNYLSCFLKR FLEMKYTPGEDVVNTIKMTTEDLKYNTD LVDKAAAGLERINFNFEGSSSVGKMLSN SIAWYSEIFYERQSQFMWQT*LLA
11127	25028	A	11221	266	356	FFEMESHTVA*AGVQWCDLGLLQSLPPG FK
11128	25029	A	11222	105	2	RFVCSTIKVLRLDLSSARSNPGRFI*TSN SRPRKS
11129	25030	A	11223	145	350	RKGRQLLD*DLGWV*WLTPIIIPILWEAE LGGSLEARSSRPRAW
11130	25031	A	11225	155	348	PLFFFCCFHRTNFY*KSVCRFPKKKKKKK

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						KKKKKKKKKKKKKKMEGGGGANTKFLY GENRKPPPLFFFF
11131	25032	A	11226	271	3	NFLSVNFNTRICLGMCFLSIFLLIFGGS LKYQLFLAQGFFFFLHYFFTSSIHSSL Y*MLDFLDDLFYLFFCNFNSVFLFCI LSKFF
11132	25033	A	11227	3	413	SPAEPHRSYTMWNVKVGNGFGRIERLV TRAFNSGKVDIVAINDPFIDLNLYMVMY FQYDSTHGKFHGTVAENAKLIVINGNPITI TIFHERDSCKIKRGDAGAEYVV*STGVFTTMDNAGAHLHG*ATRGIIISAPSAD
11133	25034	A	11228	48	413	VFVLVSCGFFFFFFWEKKICFFWPAGKK RGKIGGTGTFGPKGKGFRGPPPKNKEK GGPPPPPNNFGFLKKKKFYQGGQGG*KTRNFGKPPAPNPWKGGDLGGGPPTQGQNG FLKKKKQKK
11134	25035	A	11229	172	404	EFEFNSCSPGWQRQGVMIPGVTVEDMNQQ EFIRALVALLKKSRKLKVPEWVDTTKLA KRKELT*DEKWFYT*AASTT
11135	25036	A	11230	247	2	QPKKKSVSKKKKELPCDAIPPLPGIYP KEKKSVYKKDNLHLRVYCRAVFTIAKIWNQPKC*SGDK*IKKI*YIYTVDLRR
11136	25037	A	11231	1	372	TETTVEWANCEQDRKLTKSERQRFKKEE AEMLKGLQHPNIVRFYDSWESTVKGKKC IVLVTELMTSGTLKT*VHQYYKS*PRSMREFDFLNFRSTSFTLVVQPKKGTVLPTVTVLAYFLAHKV
11137	25038	A	11232	311	464	KKATPRNLCKWPGTVAHACNPSTLEGRED GWIT*GQEFTSLTNMVPP
11138	25039	A	11233	64	418	VPVASRRRRRCRGRVGGGKAMADLDKLNIDSIIQRLLEA*GAKPGKKVQLHENEITGLCLEPREIFLRQPILL*LVAPLKICGDIHGPYYDLLRLFEYRGLPPKSNYLFLEDYVDRRH
11139	25040	A	11234	233	421	PTTSNMRSRLLRGASS*KKTAGPOQRNL EPALPWRWGGRSADNPPSGSLRKSGKNM QKTPGTA
11140	25041	A	11235	343	1	NNTHGLSHSSVGRNPGAVGSGSCMSGIKLSEGLRSLLEAVCISRAAVIKCHSWVASNNRHFFSPSSGG*KSEAKVWAGPCSL*RRVPSLPLPASGGSRHLVCGCVTPSAFTW
11141	25042	A	11236	122	419	RTPRGPKPNPGLQRKTFFLIGGRIKTYLGIFGKDLYFWGGKNWDTLLPKI*RSRENKNF*REKWVNLLPPYPGCLKNGARQQHFAHLLILRDTKTYMLAF
11142	25043	A	11237	1	379	AFNHILHAGHGGLSGAACMSLVLLLCLAQLWGCHSSPHGPWLIIYRQPNCDDP*TEEASLEAIDYINQNLIPWGYKHTLMHIDEVKVWPQ*PSGEFLFDIEIDTLETTCHVLDPTPV A*CNVRQLNEHAVQ
11143	25044	A	11238	1	397	QTMTPNRGPGLCPSKDLRSSHVISLPLHSATHTRPTNQHTNHIPMMARRSTRKHIRRAPHTTCPKRPSIRDNPPIYYLRNFFLRRIFLSLLPLQPSPYPPPIRRALAPNRHHPAKSPRPTP*PLTGALSALLKTSGLAM*FHFSIALLILGLLNTLTIYQ*WRDVALESTYEGHHTPPVQKGLRYGTILPITSEIF

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						FFAGFFF*AFYHSSLAPTPOLGGHWPPTG ITPLNPLEDPLNLNTSLLASGVSIT
11144	25045	A	11239	267	3	FVSVRITDIYASAATWLSYVWWWASSPN VCPVGDRLVALSPRVECSGTISAVRNRLR PGSSDYPASA*PADGWAPPQYRCPPPRL ANF
11145	25046	A	11240	391	31	VFFFFFFFLLLLLLLLLFFFFFPPPF LKNPFEPPPPNFFFCKPKF*ILFLN*I*F *IKF*I*KIPGFFLNPPPFPPFFFFPP GALFFFFFF*EGVLP CSPGWSAMSHLLS EKRKLTTPRMSYN
11146	25047	A	11241	371	491	KIFLCWARHDAACNPSIFRGQQGHIT* GQEFKTSLANMV
11147	25048	A	11242	1	221	HRIDPLCRNSARAFFLSTGCHRVSDQG LDLLTS*SAHGLPKCWDYRCKPPRPAL NCFRTISQLLNLCIKD
11148	25049	A	11243	382	333	TYKIKDFKTF*RWFHPNISRVEAEKLF SRGQRGDFLARPSESSPGGFTLSVR
11149	25050	A	11244	169	477	TQKDEKESTTTTKNAENSKGQSAYSSPS DCNTSLARAQN*EEAEMDELTEVGFRRR VIMMFVKLKIGHILTQCREAENHDKTLQK LLTSITSLEWNINDLMELK
11150	25051	A	11245	200	462	SLIYNEELCTIHILYQYYVA*QRS*CFQQ LMSFY*RTLKNLKESELCKVALLYPSFLK WKRGWLGTVADT*KPSTLGGQGGRIA*A QEF
11151	25052	A	11246	484	301	I FCEKKGL*FQLLRRVRWEGPFNPGNQG CS*LLSSPCPPGWITE*DPVSQKKERK RNQVMEVLSAQENKNKPRSVGLQACARS MLAFSTTPR
11152	25053	A	11247	226	458	NTVAVDWGPCCFFSLLL SHAENCDMWFT KIELFIFTNHLLL KQDLEMILW*GQAHAC NPSTLGGRRGGWIT*GQEFTS
11153	25054	A	11248	304	436	SPSRCRK*KIG*AQWLTPVISTLWEAKV GRSLDPRNSRSAWTMY
11154	25055	A	11249	216	451	THKYLFFYLGYNPMLYTERETGSCSIA* AGVQWYSHGLLHP*PSGLKRSSQVAGVI CLANFFFFFLKKWLSVVLPRLG
11155	25056	A	11250	260	474	DKYFLLYPLKALNVVLGAHINI*KVSKI MC*K*DKNMNYNNFSF*DGVSLLLPRLE CNGTILAHCNCLCPC
11156	25057	A	11252	193	496	MTSCYSFYI*IKDASMVKKKKKKKKKKK KKKKKKKKKKKKKKKKASSSQKAQDYS KASDYK
11157	25058	A	11253	348	478	DLGWLKLGTVAHTYNSSTS GGQGRRI* GQKFKTSLSANVVKPC
11158	25059	A	11254	174	475	MHHWVLILQDIDDNT*NCNLHFSQLCSQL KS I QKEKKKKKKKKKKKKKKKKKKKKKST
11159	25060	A	11255	292	48	LPLTCRPAVSHTHLAFSNPTAGITIF* TRSSSWNAGTFIIIFKIVTFFLFFFF*ER VSLKLTRLERSGAI PAHCNLHLPEF
11160	25061	A	11256	347	16	TQSADWCIIYNPPARHKSSPSPHPTQ*PS WLHLVDPAPGPWVELPTSPAPSACTPQP LGSRWDQPPQSKGQCPSPGSGRLGPQGSPPQ VGLGKAGWRSQALPVGLTRSIESHHW
11161	25062	A	11257	238	590	APGAYIFPQQHNPTDSQVIFS LTASHLL ICSPLCISVLHFN GMNIDDENRNAHVHA RACAHAAHTHTHTHTHTLYLMNYRETL

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11162	25063	A	11258	310	461	MLLKTRGRATGSHARCIFS*SLLQACP LSFGDVLQLESDRPGAVARTCGPSTLGG *GGWIT*GREFETSLANMLKPR
11163	25064	A	11259	461	174	MGFHRVSQDGLDLLT*SSAHLGLPKCWD Y*CEPLRLAPVGKLFKCVGYKLVLCHGS GYMSMVIKIRMPGLIWSLEGGSAAVHRYWSIWEISFGC
11164	25065	A	11260	343	472	LLRRLRQKDCLSSGGQGCSEPRLDYCTPAWVTK*DPVSHKQE
11165	25066	A	11261	229	3	VVKMQL*VPVKVKT*KYTPLLGIYLKEL KAGFGRNTCTLMFIAALFTIANRWMQPR LP*IGECVNNM*YIHTMES
11166	25067	A	11263	163	399	KLLPGTRNLHAMEHPIFGWLRNPHATAQ G*HPLSQSSLALHGRADHICYPELCSTS SSCIAGYPN*EGMFASQHHRVH
11167	25068	A	11264	316	427	TNKHHII*TINTTTTHSLIISIIPLLFFNO INNNLFSCS
11168	25069	A	11265	184	418	KTPPGFFEKNPFFWGGKKGPPPPPKNLP LGGKKKFLRGKGKTFFFFFF*KIGSSS SPPPPGGEQAPPKKSPPRR
11169	25070	A	11266	219	13	KFFFSLEHQNFGGGGVPLFPFPKEGFLP KKPKQGFITPPLKQKIKPPPGGGYSGPP RVL*KGPPHIFYK
11170	25071	A	11267	3	173	SHHARPETGFHRSQDGLDLLTS*SACL GLPKCWDRYRREPPROARKLYCLGMRTNE
11171	25072	A	11268	157	2	PVDITHVKITVGLMVAHACNPSTLGGRR GGRIT*ARGSRFLLPPHWTSCLR
11172	25073	A	11269	291	468	ISEGKRSLSFVILHFILFFETGSCSVAQA GVQWCDLDSL*PHIPGPK*SSHGLHTG ACH
11173	25074	A	11270	29	478	GWNPYNQQDIGTLYL*SGARAGVLGTAL CLLIIRAEGLQPQGDLLGNDHIYNVIVTAH AFIAIFFIVTPPIIGGSGN*LVPLIIGA PDMAVPRINNISF*LLPTSLLLLLASAI AEAGA*TG*TVYPPLAGNYSHPGACVDL TIFSLHLAGV
11174	25075	A	11271	61	474	PYNQGGNDAHAAPHLTKWRSQGTTEIC REPEGAWRQPSQPRLHKGRSPGQLRAL QNLPYSGGSHLLSAYYV PDTISKHFIN TIGWLGTVAHACNPSTL*GEDRWIY*AQ EFKTSLANVL
11175	25076	A	11272	277	478	KIYQPVKIHGPGRPGAVAHTCNPSTLGDR DGWIT*GQEFETSLANMNSPSL
11176	25077	A	11273	350	11	KEKTAGQARWIITPVIPALWEAEAGASPE VRSSRPA*PPP
11177	25078	A	11274	138	3	NYINLYAWLGAVALAHACNPSTLGGRRGGWI A*AQEFKTSLGNMAKP
11178	25079	A	11275	359	219	FVIKMGFPQVGRDFNFLAS*SAPLGLP KWWDYRH*PPRLALFFFF
11179	25080	A	11276	262	3	FCMSLVHLFSHSQDNYFTSFSL*IFNIP SGPFLFAFQDTLQ*P*DFTYFYFETESP SVTRLECSGAISAHCNRLLVSSNSPAS AS
11180	25081	A	11277	285	1	VKKGDSVSKIFRKKKRKDKIRLHFMT TVNNLNGIEGNLNMIKEIYKNPTANIIL NGERLKAFLS*SGTRMSFLTPTFF*ILV DTQQVYIFMSH
11181	25082	A	11278	160	3	TDKEVPLINAQRKWFLMESIPGEDAMN

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11182	25083	A	11279	334	488	IV*MTTKELOQYYINLVEKVLARPE PLNTCGY*NLN**NFQPGSVAPACNPST LGGQDRWIT*GQEFETSLANMVK
11183	25084	A	11280	527	356	FFVFLVETAFHHVAQDSDLLLTS*SSRL NLPKCWDYRHEPQRQAKNVGEFSETRSI Q
11184	25085	A	11281	486	248	VRQLFSLLLPRLECNGVISAHCNLRLPG SCDSASAS*VARITGASGSQAVVLQVQ CLQPVQPGELLRVDFQLVVLQR
11185	25086	A	11282	38	157	STGLHHVSQDGVDLLTS*STLPKCWDYR HDPLRPASQRL
11186	25087	A	11283	474	339	FVFLVQMGFHHVGQAGLELLTS*SACLG LPKCWD*RHEPTDPAK
11187	25088	A	11284	2	462	LETTRTARWNNSVIALRHHNSCPYKMANL IDKCVCSDDYSKDWPPFPIFLPLLRRPYCL RHNNMETRSINPPWPSSKCSSEKTNEEG MLKVEIG*KLCLLCQTFSKDMNAEKKFL KEIKSATPMNTSMIRKQNRLIHDMEKVL VIRIEYQASHNIL
11188	25089	A	11285	65	280	SRAVEFNLLTT*SACLGLPKCWDYRCEP PHPASP*FSKLSSNLKTYLSSL*DSHS GFYSFVCISLGLIILI
11189	25090	A	11286	244	488	MRLGRVPSVLFYCVRMREGTILEAENK PSDIESVGALILDFTASRTIRNKILLF IIIPG*GILDSPNVP
11190	25091	A	11287	345	445	KRPGTVAHACNPHTLGG*GRWIT*GQEF WTILA
11191	25092	A	11288	223	500	SPGTRPKVLECQSTLGRQAIIILGEGWL WGQSHRLGVSQLCLCWLWDLTCSCS FQI IKLR*RPGVMVHTCNPSTLGGCGGR IAQGQEFK
11192	25093	A	11289	157	22	LSCQEVKGEIGEAETCWAQWLPPPIPAL WGAKVG*SPEVRSSKP
11193	25094	A	11290	305	497	KLVNCIYFKGVSMVRELYCNKIV*WLG TVAHYINPSALGGACGWIT*GQEFETSL TNMAKPR
11194	25095	A	11291	478	1145	QHQACPERPQMMGTLERSRAVASKIGH SYSLDSQPARAVGKWPQQACTRVTTEL EATGKLIRTSIHKPHQPSFQPAATQK LRPASQQGVQMKTQGGASNPALQIGSHP MCKSSQFKSDQSNPSTVKHSQPKPFHSV PSQPKSSQTKSCSQPSQTKPSPKSTQ PKPSQPWPPQSKPSQPRPPQPKSSSTNP SQAKAHHSKAGQKRGKGKH*RANSRDL
11195	25096	A	11292	352	468	TFPGQHGKIPSLLKIQKLAGHGDACL*S RLSPR
11196	25097	A	11293	295	24	ENIQGSKKNERQHMHNGVGTWNSNPGFV STWVYRNCLACLDISFSFIKWVKSHKD TSMGMFTAALFTIAKT*NQSTCPMSMVWN STTRTS
11197	25098	A	11294	274	429	ECEPVQTLWKRKFLKKLKIELPSDPAT PLKGINLKEVKSV*SDTYTPMC
11198	25099	A	11295	168	469	PSLGNKSETPSPKKKNLFLGFPYFREK LVGILLKTVLQKGAGGVFFGPKNPPEKN PDPPLDSPPKTFRRLGAFVKTFPKGLKA AVVFPALV*PQGQMG
11199	25100	A	11296	37	348	IKIFNKTLYFKKKKTIKKKKKKGGPL KRPRGGPRIYPDGARKNLPHIGTAKHW

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						GGYWEKNPHGGGGNTGPTPPQKTRPLGG KNNLKRVQGEKPRPRLGGGKTRSQLFSC HA*P*VQGEKPRPRLGGGK
11200	25101	A	11297	93	388	DEYASDNCCYFPGSSHDHSVQKQIGSQFT TQIQAHNLAKPRRAL*NHS*PMEMRSK CLLLAYKKKKKKKKKKKKKKKKKKKKKKKK PKYLSSRGKDHF
11201	25102	A	11298	61	243	YYIIRRTTVFMCMN*GLKDNVDK*TIDLC LCKKKKKKKKKKKKKKKKKKKKKKKKK KKKKKKKKKKPQGGGA
11202	25103	A	11299	250	341	IYMSLTGLQLN*ETHLTHKDSHKLQVK GWKNIFHANVNQKQTGVALIISDNIDIK ATTVKKKKKRENPTILNIVPNTGAPKF MKHLLNLKNERDGTIVLG
11203	25104	A	11300	3	285	DAWERKKRSQMNMQKTTNKVAGVSPYLSI MAWNVNELNFLIKRHRVA*CIKKTKSMI CYLQETNFIFKDTHRLKIRGWKKIFHPNR N*LAGVVY
11204	25105	A	11301	175	407	AENNPDVQLQKA*TSRGTFMP*ILLRVK RGNSRNNRQCWQGWRGTGMLLHC*QECK LVQPLWKTVWRILPDLESEIL
11205	25106	A	11302	75	280	YHLNLVLYPHPPKRNVC*KKKKKKKKKK KKKKKKKKKKKKKKKKRGGPLKKNLLGGP FFPGGKKKNFFF
11206	25107	A	11303	299	3	IHASFLFRGCITLAFTVRCSHRSITSSE TSDLTHYYYYYYYYYF*LASQSVALAGVQ WDQLGSNHPPTSAS*VAETAGASHHARL IFNNFVEMEVSLYC
11207	25108	A	11304	137	323	FFTVNGRHRKEKKSNKDQLNLGLHDFLD NPLLGF*KYLGREKKKKKKKKKKKKKK KQKKKK
11208	25109	A	11305	64	481	RPTRPHVYHIVKPIP*PLTGALSALLMT CGLSM*FHFHSITLLILGLLTNTLTIQ *WRDETRESTYQGHHTPPVQKGLRYGII LFITSEDLFFAGFF*AFYHSSLTPTPQL GGHWPPPTGITPLNPLEVPLNNTSVLLA
11209	25110	A	11306	142	330	FFTVNGRHRKEKKSNKDQLNLGLHDFLD NPLLGF*KYLGREKKKKKKKKKKKK KKKKKKK
11210	25111	A	11307	259	440	RPWIRDNPPIYYLKSCFLRTIFLSLLPLQ PRPYPPTRRALSPNRHHPAKSPPRSP*PL TGALSALLMTSDLTMGHLHFIYITLLILG LLTNTLTIYQ*WRDATRESTYQGHHTPP VHKGLGYGIILFITSKVVFARFF*AFY HSSLDPQLGGHWPPPTGITPLNPLEVP LLNTVRL
11211	25112	A	11308	433	3	FPPPDIRHSRSLGFPFSFGRAGFLNFAF SKGQEPALPGFYYPSPKKKNLAFCSPP LFYWGKGSKFSLGVGPLFFP**SPKSF CQFLENKGFFPEKSFFKFFFPPAGGCVFF FSEGGFPFCFLFFFDRVWLCHPGWISV ARS
11212	25113	A	11309	2	423	GRVGDR*LFYTNHMDIGTLYLLFGA*SG VLGTTALSLLIIRAEGLQPGNLLGNDHIYN GIVTDHAFDIIFIPIIIIGGFGN*LV PLITGAPDMAVARINNISV*LLPPSLLL LLAYAIVEAGAGTG*TVYPALAGNYSHP
11213	25114	A	11310	234	1	TFFGKFPFCFKPAQRGGENTPGPFPP

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						LVFFFFEMESRSVAQTGVQWRDLLGSSN SPTAS*VAGTGACHHARLIF
11214	25115	A	11311	406	211	LSLFLHSLISTHGARPTDPVGLVPTQDG LDLITS*SAHIGLPKCWDYRRAPPAC GFDLHLPND
11215	25116	A	11312	379	398	KT*NFTVRGSIPLLNNTPMASMTFSKKK KKKKKKKRGGPLKKKNPGGAKFNGGRKRK IFSLKGGEKKNPAGILEKKPFFGGGKG ENPPKKNKGRLREKKKF*RGKGGKKPQKG GGKKGSSSAKPTTWG
11216	25117	A	11313	390	489	RYRLGVVAHACNPSTLGSRGRWII*GQE FETSV
11217	25118	A	11314	286	434	ILWYWMNYISIKLLKIIITYKLGAVAHTCN PSTLGGRRGGWIP*GWEFETSL
11218	25119	A	11315	322	3	FTFYGCRCQFQVF*IVTKNDRIIFSSYTK NLLKIYLGLY*FYYVPLLRTKSLKKTGS FESNLSFK*VFLWSGTVAHTCNPSTLGG RRGWIA*GQELETSLTNMERPR
11219	25120	A	11316	251	389	TFFFEREFHFVFPQVGVQGGSLGSLQAP PPGSHSLA*ASPRCWDGG
11220	25121	A	11317	313	80	EYICPRCLSPGPFRD*PGOHGETPSLQKL QKSAGCGGAHLRSQLLRLGDRVRHCLK KRIYLSLFNSLVLNSNNRFQII
11221	25122	A	11318	145	410	APKTLVALTSAAAARESICQLGVLDL VIFLELNRSSTDORPGAVAHTCNPRTLGG HGGWIT*AQEFTKTNLANMVKTC
11222	25123	A	11319	393	3	NFFKIIIFTLSPPLPLIFTPPFFFFFFKKI PPKPLFFGVFHQSQTCPQISFFKNFYPFL FWFSNPFFFLLFSPSRKGPPFSRFFFFK VGNPLFFFLLLLFFFFFG*EGVSLLLPR LECNGTISAHYYLPRPV
11223	25124	A	11320	135	1	HRDVKLEYAIRKMEVRPGVAAHACNPST LGSRGGWIT*GQEFEETS
11224	25125	A	11321	282	2	NSESVLKEKGDEEEKVLSFLLFSKRKV LESKTFPTLHSCKKRSYFLKITSSFL *PRVECSGVIIDHCKLKLGSQDPPTSA FPVARTTGM
11225	25126	A	11322	149	30	WGSGGQVRWLTPPIPALWKAEGGSPEV RSS*PVWPCLY
11226	25127	A	11323	316	399	STLGGGRGAQIT*GREFETSLANMPNPIS
11227	25128	A	11324	223	397	IIKAYQ*DVNREQIKTIIITYFQNKLKCI KKMIWPGAVVHVYNPSTLGG*GGWIT*G QE
11228	25129	A	11325	3	396	NYSTAALFLRGHIWGWRWGTLYYGSSPI YCRGLNSTLGLYPLNASSSNPHPRKLCKP KIYTHIAKCPIGHKIIYPYANTPIIH*HH THTHTHTHTL*DSLLWPGVVAAHCNHNT LGSGWRQIT*VQEFKTSIA
11229	25130	A	11326	113	442	KRYIQIRAHSEVLCGHELWGTIHNPVQT IOTWEPFPYLPILCSRVTSGKSHHRFVPL LFHL*NRNNSSHHHHHHHHHHHHHHRNPC* ECCRAHSDSYAVVSDKVVSQEPVAAM
11230	25131	A	11327	145	3	ELDIKPNNPFCCHTGVQ*CDLGSPQLLP PGFK*FCLSFPSWDYRCA
11231	25132	A	11328	189	1	KTNLLLIHSKLRLLHQSSVFQC*SKSEK SNVCT*CAFSCLPKLFWLKGVAHACNPS TLGGRRGG
11232	25133	A	11329	193	405	ID*QTLTKKKKKKKKKKKKKKKKKKKKKK

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						AYTSKKKT
11233	25134	A	11330	209	11	GGKRGTPPTINNNIFFNFFF*EKGSCCSS RAC*CNGEI*AHCPLRLPGSSNSPAAAS RVQETATTPS
11234	25135	A	11331	38	390	VDQSTVCKMGQSAGCGWGSDKGIKAGCL K*QRQKKKKKKKKKKKKKKKKKKGGGG LKKKLFLGPGGEKFFFFFFWGPFFFFGGR FLKRGGGKKPGYKKNKISGHPPPFLGGG KKKKR
11235	25136	A	11332	38	326	VDQSTVCKMGQSAGCGWGSDKGIKAGCL K*QRPKKKKKKKKKKKKKKKKKRNRRGGG FIKKIIFFGPGGEKIFFFWGGFFFFGGG FKRRGEEKNLF
11236	25137	A	11333	1	234	RTRGKNWMAFIKEGVWPTGRMGGSFIKH SFLESKNTWLGGKKKKKKKKKKKKKKKKK PHDKIKDLDFDPV*NKKQNISIP
11237	25138	A	11334	244	398	INHLYSNKNDLIFLLVFYLFFF*RRPG EPPLIKGWLPYLGGVLNLRKDPL
11238	25139	A	11335	174	1	HQVYPYVKQEHYKQDSCQCYIKYMNVWP DAVAHCNPGLTGAQGGWII*GQKFERT RG
11239	25140	A	11336	148	411	LFFFPHCYLLNAPSILYLNEPKVVYNLH LCVSAVCLLVPVHSPHRTCLY*KKKKKK KKKKKKKKKKKKKKKKKKKKKGGAFFK KLLF
11240	25141	A	11337	237	453	GQRPLLSFREKGSFFFLLTEFCFAPQA EGQGHNLG*LQLPLWG*SNSLVSSSQEV GITGAGHHPRLLFFVF
11241	25142	A	11338	65	347	VCRVDDFVPEARTRFFKSI*EAWNNKNI KPLLSTFSQVPGSENEKKCTLDQAFIGI LEEEIINHSSCENVLAIISLAIGGVTEG KYGSVLFCLK
11242	25143	A	11339	158	393	VPCFHSEGIRKGRKCLPKTRENAREERD KKIPPGLC*AGKLFPQEKSSTWPGKVVH AWNPSTLEGRGGWIT*GLEFKTT
11243	25144	A	11340	117	3	GIRPGAVAHVCNPSPPLGG*GRWISRDWE L*TSLANIR
11244	25145	A	11341	292	60	SGQGLRLRGAFRGKVQAKEWMPIPKLGC LVKDMKIKSLEEYFFSPPIK*FEIIDF FLGASFKDEVFFLVCLFVCF
11245	25146	A	11342	149	30	TQIFPPPPPPGKKKKFFPKKKKKKKKK ERKDKRKNKQK*KGPGVGVSPLFPPPPLG GQGGGFPOQGLGFKTPLAPKGKPWF*KT QKFPRRGGGPPKIPLFGGGGEKKPFSPG GQGSNPKFFPPPPRGKKKNFFSPKK KKKKRKKERKTEKTNKK
11246	25147	A	11343	120	504	GVHDRCWLDDMTRRPPAAATACPAGRP PPRREEEHSQLLISFQGFRWD*DQDVN TPNLDHAREGVKAKYLMPPLVVTMTSPS HFTAITGKRHSAAHFTRCPSNPQRPSFPV IRSKSSVSSREVEVA
11247	25148	A	11344	213	399	ALVIHCLTTTIQVSGLSGSKYLMRQGMV AHGCHPNLTGGRGGWIT*SQESETSLAN TVKPCL
11248	25149	A	11345	308	3	NPTPRSGDLWVEEGSPGAGNWGCLSEQT LRRAIIKATTYSFYCYFFETGSHSVAWA RVQWYNPGCSICGSSHLPPTSAS*GAGTI GMHHHAWLIFLFFVENE

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11249	25150	A	11346	189	433	GHCRAGTSLTLHLLGGSAMELTIHLGLC LGRMKFIHTTCIILFLFFLSATQAGGQQ GDLS*LQPPPLGFKQFSCFSLPRSWD
11250	25151	A	11347	257	3	KWGECLCFLTIKEERMGFPIAKKRKIKGV F*FGLFFFETESHPVQAQAHCNLSLLDS SYS PASAS*VAGITGACHHNQLIFIFYE
11251	25152	A	11348	159	434	LSPSCRDVGTYSARAHPPHTHTRVRAHT HACTHVRAHTHTHTTAHGSHLTKEQPGL CTLPGSSW*PGLGGRAIAATAQAWVHCAG IIITAHHPP
11252	25153	A	11349	240	406	AFKKLAKNNNSMGVNRSLSRPGVVAAHAWN PSTLGGRRGROIT*GOEFETSLANMVKP
11253	25154	A	11350	163	360	PQLQLMKFLQN*LLERLRPQNGLNLEG LACSESRSRPCAPVWRTERDSVSSPQPR PGAGGGRPSFF
11254	25155	A	11351	145	406	PLNSGAKPTLPPWSPRRPELNAPP PPPG EKEFFFFLGRGFLFAPQEEAGGENIV*G KPPPPP*REFFAPPGGDGNGKGAPP PPP LFL
11255	25156	A	11352	122	337	ILWVLLLVRESLKFFFLLLFLLFFET DVA*AAVQ*SDHSSRQP*PPGLRGSYTS AFRIAGAIGICHLY
11256	25157	A	11353	325	416	KCVYIMGWA*WLTPVIPALWEAGAGRSL EV
11257	25158	A	11354	260	415	LEELQNTACQKLEPFLSRTEKQGCLLS PRLFNIVLEVIA*AVRQEKEIKGI
11258	25159	A	11355	160	2	ISEISTKRNNYFLKNWLGVVAHACNPST *RG*GGQTTRGQDFQTSLANMVKP
11259	25160	A	11356	160	3	ENLKLYNGSPFLKIIWLGMVVHTCNPST LGGGQGRIP*AQEFKTSILGNVRPP
11260	25161	A	11357	235	408	GQPLPAALFFYQWHLHKELLALHPWGKT VWRFL*PLKKEGPHDPAIPLLDIYPKKN KW
11261	25162	A	11358	11	393	QTERTPTPKPHLYVSFPPNSQDPQLQGG KLTNRKNHTKTPSVCHHQRPKVDKTT KIGKKQSRKTGNSKNQSASPPPKECSSS PATEQSWTENDFDELREEGFR*SNYTLL KEEVRTHGKEVKNLE
11262	25163	A	11359	283	475	FMVSVS1KVYFFIFIFLFFEMESCSVTO AGVQWHDCLSFLC*VLASSPGNSSPVR
11263	25164	A	11360	266	407	LEIHHSKTL*FWLGIVVARACNPSTLGG* GRWIT*GQEAEIILANIVK
11264	25165	A	11361	93	1	DVLSILLPRLECNGAISAH*NFRLPGSS NSS
11265	25166	A	11362	131	377	MEEMIKGRGLSKPPALSSYLTLKSS*LK RVRARRRLFLKSRFSLDLQVAGFFVCLF VFWDVRVSLCHPGWSVVVQSRLLTAALT
11266	25167	A	11363	212	392	QAECAPLFIGVKEPPKNLTHWLGTVAH TSNPSTLGG*GGQITWGQEFTSLANMA KPCV
11267	25168	A	11364	141	3	NELWNHQNVLEWLGTVAYTCNPSTVGR WIT*V*EFETSLGNMVK
11268	25169	A	11365	215	384	ANFNIRPEIISLASKCPSERKSRTLLPLN QKLEM*lseeatSKAKTG*KLGLLHQI
11269	25170	A	11366	48	373	EPWTRKEVLKISSSLKIHCVYSLCLL MPTLECTAAIMAYSNLLELPGTSCPPTCA S*VAGTTGACHRAPTVLKIFLDRRIFF FFTNVTVPWCHTPADPAIFKANAR

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11270	25171	A	11367	310	2	GLICLNRENAYFFVIRQISMSCLEKEKPARYSSPPYAKSVTRGEKRQRQFFLRSAPP IPFLFFFI*IV*AESRSVAQAGGQWLHFS SLQTTPP*RRTSDSPASAS
11271	25172	A	11368	303	50	MFALTNRGVQGPSPVIFLGVFLISKMGFTCFKGFSRFKVLVFFLGVFSPSFFFFLRARVLLCCPGWSPTLGIK**SSCLGLPQCVLT
11272	25173	A	11369	109	419	QSNASLSHFTSPPLSVADRL*LFSTDHKD LGALYLLFGA*AAVLCTAISLFLDWLG QPCNLLRNNDHIYYVIVTAHAFARIFFIG IPIIIGGGFVN*LVPLIIGA
11273	25174	A	11370	112	258	GGRFKGSNTSAGMQRNIFFMGPPK*NS RAVG*QRGEKGPNPGVTKLNR
11274	25175	A	11371	823	1078	SQHFGMPRWADHLRSGVQDQPQGHGETL SLLKIQKLAGRRGRCR*SQLRRLRQEN CLSLGGRRGCSEPRSHHCTPAWATQ*DSV S
11275	25176	A	11372	184	420	IKQQKNLFLALVKELVQLLWKTWQFLKKLNIELLCDPAIILLLGIYPRELKMYVHT KTCT*MFIVELFIKSKK*KQPTC
11276	25177	A	11373	234	44	LATITDRLLALSDSAIPPLGIYAKEKKS VYQKDNCNTYIFVAALFTVAQI*NQPKCP STRTRGS
11277	25178	A	11374	73	456	PPIGSPLVPYIPSPALSSPQAPRMGSHP CLIPSASCHPPPLETDLSSLPLPTHFCCLAV FTKERFSPPPPPSPYPRF*KFLRS*KFSF FLPPFLFFGGTVLLCLSGWSAVAQSWLT AASTSLGSSDDPTSTS
11278	25179	A	11375	43	456	EFFHHVGQDGDLLLTS*SAHLGLLK cwd YRREPPRPRASDGHY*TDATGSLPSSGTT *IRT KPSQAPASWGLWNLAHHPPRSHPS CPMANLICSTLSSFDGGSPGTGPGGWCP LGLSGSPARAVFKDSSCSLHPLATGI
11279	25180	A	11376	288	484	EWVLSAVGGSQYGVCLPFLHCFIFFETE SRSVAQDGQV*CDLGSSSSLPPG
11280	25181	A	11377	129	1	NFNALNLIRAGAVAHAYNPNPSHLGGEDGRIA*GQEFTSLSNTA
11281	25182	A	11378	307	1	DSEIPSGLAKFWNHRRREPPCLALFLTQNQKLEMIAKLSSEEGISAKTR*KAGFLCQ RVSDQDVNAKEKFLKEIKRATLVKTQMMRHQNSFIADAEKVWMAWMK
11282	25183	A	11379	200	397	CISLFSHYYKDLPETGSFIKKRGLIGSH WLGAVALAHACNP S I L G G Q R R I T * G Q E F E T S L A M V K P C
11283	25184	A	11380	167	1	SNGLYSREARMVQHHTIRPGVVAHTCNP STLGGHGGRT*AQELKTSLSGNIVRPC
11284	25185	A	11382	12	395	AHSSFLSLLDLSVFATCPHPRAETQTGHR FSTLLPLSALYPK*D Y F K K K K K K K K K K K S G G G A
11285	25186	A	11383	160	2	TMEMLLDIK*I*EIFLFEFKMGLKAAET TQNIINNTFGPGTANEQTAQRWFNK
11286	25187	A	11384	274	389	GQAQWLTPV I PALWETKAGGSLE*GQAQ WLTPV I PALWETKAGGSLELKNSRPSLGNMVKPP
11287	25188	A	11385	389	37	WSYESSWSFIFKSFLFSFMISAYDM*YASQILFTP KLYRTHPYFLVLFLILSILV ILETGSRFVSRLECGGGISAYGSFK*LGSGNPPAAASLSSRIPYVHQSCWSDLAFN

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						PEFEM
11288	25189	A	11386	214	374	KGGGRFKGSKFTSPGGGEKNFFIGAPK*NSRAGV*KRREGKNPGVTQLKKGVG
11289	25190	A	11387	142	410	RFVCSTIKVLRLDLS\DRSNPGRFLSTS\*KKKIKKKKRGAPFKKKNFYRGGGGKYFFFAGPKINFLGRVFQPGGGENPGRSPFKGAWG
11290	25191	A	11388	144	1	CLSNEDSIKTPKGLGTVARTCNPSTWGGRNWG*GOEFTTS\ANTVVK
11291	25192	A	11389	167	2	RNISSHLLNMAITKQTNNNNNCW*GYREIITHIHC*WEFKMQLLQKLVPQKVKHT
11292	25193	A	11390	2	412	SDQVQDAGRLLSSEASLLGLPTATFLLCLPTGFALCTRVPGVFLLLRTSVILREGPTLVTSFYLNLYLLKDLVSIQSHWGLGLQP MNFGETQFSL*QKLV*KEKESMPGMVAHACPNRNLGGQGLIT*GQEFTILA
11293	25194	A	11391	1	206	TGRLAGHRVSSLPIRGGRAEAPLTSRTGRLNQDGTLNLLTS*SARLGLPKCWEYRRQPLRLAVISGFLT
11294	25195	A	11392	262	388	VSK*KKKKKKKKKKKKKKKKKKQ
11295	25196	A	11393	78	414	IICFLRAPPFFFFFFFFFF*TKIFFFPALNSMANFFFFWTTPFLGGIFLPPPFFLEGGGPLASPPGGAFF
11296	25197	A	11394	238	11	IKWETAGRSSACL*S*LFERLRRENFLNPGVIHG*DEI**HHCTPAWVITVRPRLSKYINKNKK*ARLAARCGGSRL
11297	25198	A	11395	340	1	KHILVPPFINVSEIQRYSLV*HLLFVGV*NLFLFLFSFKKPVLCSM*IICHEIISPPSKPKCKASHLSFV*KKNSNLWLGAVALACNPGLTGARGGGRIT*GWEIETSLTNMEK
11298	25199	A	11396	363	245	QMDLNRHLSKDDK*MANQCMNRCLTSLAIRQMGIKTTIMI
11299	25200	A	11397	292	2	DPKKEAGRGGQAQL*FQLLRFRKHETHLNPGG*GCSESRSHSSPPAGATK*NGVSKKK*Y*APKEERHPPRVLVEPRVPQVPSPG SQTYRQDHSPRV
11300	25201	A	11398	121	321	KKLYTHKSKSVDMIFLKIETVSWLYCPGWRVMAHCDLKLLGSSKPPTSAS*VAETS GTCHHARLIFL
11301	25202	A	11399	118	394	QALPQPIPVLILLQFFFFFF*GTGFCFVAOIGGOGGHGHY*LEPPIRGLKPSSRRRTL RGWD*GGHNAQLILGFFEKTGSCFVVQAGLKALA
11302	25203	A	11400	273	379	AEPGVVAHSYNPGTLGCRGGGIT*AQEFYTSLGNM
11303	25204	A	11401	360	38	KIFGQARWLTPVIPAFWETEVDGSPTEV RSRPA*PS
11304	25205	A	11402	254	404	GPAGHDHFMITPSKSTETGLGAVAHCNVCNPSTLGGRRGGWII*RQDLETSLA
11305	25206	A	11403	161	3	ILPTPTQYIKINLRGQANWFTHVIPALWKAK*SGGLLELRSLRPAWVIEGDL
11306	25207	A	11404	1	170	MGVSLLSPRLECNVGVISAHCNCHLL*FTFK*FSCLSLPSSWYRCVPPCIATTFLIY
11307	25208	A	11405	249	3	NAKSRIQVISIWIWTFVKFFFHYYLCNFSQ*NEMAGGQSIFRKHHLDFSLEHSGMMTHCSLDLPGSSDPPNSASSVGGTRH
11308	25209	A	11406	70	401	CGKHGVNLIIHSFLNHLKY\LLQMANL

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						FISQFLLTCAVSEPLLF*YCHQIITKVGRL HEVKQMRGTTKKQEKMFYWNNDKNVCPEG VPAHACNPPTVGG*GGWIT*GQEFTNT
11309	25210	A	11407	257	389	GGSLLQKYLRPLVAFLFSFFFFSFETES *SVVRLECNGMISAHC
11310	25211	A	11408	364	420	SQPFGRPRQADCLSSG*AQWLTPVVPAL WEAKAGRLLIELRLSLR
11311	25212	A	11409	312	413	TSGMGPVVAHACNPITLGGQGGWIT*GREFETS
11312	25213	A	11410	283	425	HGHKDYVHWLGAVARACGPSILGGRGMW IS*GQEFTESLANMVKPCl
11313	25214	A	11411	389	3	CRIDGLFFNLVFLRLVVWKF*VIFFLSY FSFLVIIQLQFLTYMLNCTFF*QIILNLPF ILVLLTKILNTLLSTENYCHFSLLYCLE FWFWHPPIIKHKMYNLFLL*FILIFILRQS LARSPRLKYSGTISIH
11314	25215	A	11412	267	3	QEQQEDTSELDLEIRSLCKRKGGGLKQG DTKDNLSKRVVVTEDKGKAAWWPGAUTH ACNPSTLGGQGGWIT*GQEFTTLTNRC PRV
11315	25216	A	11413	3	281	GAWSCTIPGEGLSLSAQATQPFSLYPVN PQ*ISLSARKKKKKKKKKKKKKKKKKKK KKKGGGGVLKKIYFPPRGEKKFFFWGP PKKTGGGGF
11316	25217	A	11414	275	2	KTAHFQLFNNSDFKPGSRNPGQOSWSPRA KQSFCCTQALLKYFLK*MNMELNKSRSQ AVARTCNPSTLGGQGGWIT*GQEFTSL ANMAKPR
11317	25218	A	11415	319	1	RNLGVQVYEVVVLVYKCSVSSNNKMKRN KRDLLVI*VPGIVIHLIYRLIKEPELY ISLFIYSMRSRSLKKLTYRPGAVAHACNPNTLGGRRGGWIVCSQEFETSLGNM
11318	25219	A	11416	121	428	LSCDKWGNRDMTKMLSKELKYYYYYYYY KKKKKKKKKKKKKKKLGDEEEDEKE*QSSW GGGGALIKNIFFPSRAASGFFLSSLKYK KLGAAYVIILGEKTTILWL
11319	25220	A	11417	79	253	KIFNFQFSNMLENNSHTTRINNYFPGRE RWLTPVIPPLWEAKAGRSLEVRS*RPSCP
11320	25221	A	11418	180	4	EVGFMDPKGLCGVFLEAGSHSVALTIVQW CDLGPSPQHPPPLGSRDPPP*ALQIVGNTR RVP
11321	25222	A	11419	154	3	STLKDKENQKLSIQPDTMAHVCPNSTLG GRGGWIT*VQEFEISLNMMVKP
11322	25223	A	11420	436	478	AIPLPH*RKKILHAALFFFKLGSFVLS PRLECSTKIAHCSLPPPNISNPASSSS QEGGTT
11323	25224	A	11421	143	398	AAFGFWFLVIRFLRQRLALSPRLDCFFA KSASCOPRPP*FKRVCWLSPKSWDYRF DLLCAAGLVWVYLSVSRLHINEKNQPPP P
11324	25225	A	11422	1	138	MVFHRVGQDGDLLLTS*SAHGLPKCWD YRHEPPRPAHSYFLLHK
11325	25226	A	11423	2	390	LELPILLNNTLILFLFLILYIYLVFSNP AFRILFITIVLESFSFILLVPSKPWKS LILSNAFVLCMMISSPPFPLFSLSLSTRI NIKKLDFWLGAVAHAYNPSTLGSQGGWII *GQEFTESLTNMAKPHL

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11326	25227	A	11424	267	414	VFQITFCIKNFWPGVVAHACSPSTLGG*GGRIT*AQEFETSLGNMVKPC
11327	25228	A	11425	189	73	HQDGLLLTS*STRLGLPKCWDYRHKPPRSARPNAWVAP
11328	25229	A	11426	318	33	KKTISSHARGRKLGSKFKTAAPFFFFF*T GSCSLAQAGVKWCSHSSMQPRPPGLK*F SASGSAGIIGMSHHTRPIAGFLLAKLKK KSNSTGYGGAHV
11329	25230	A	11427	291	393	DRVSLCLPGWSAVLPS*LTAAQISWAQVIFLPQP
11330	25231	A	11428	51	399	KRVARQNPPNGQGFGWCSCSPILYGQSR AQGENIYKLLGSGEWPQQLIIDVEREQL EDWRQGDLLGRGMWMTKARVHKGPGLVAG TCNPSTLGGRRGWIT*GQEFLNSLANMV KPCF
11331	25232	A	11429	242	420	VKKKKRGGRFKGSKFTSACLQGISFFKG APKLNSRAGF*QRWEGKNLGVQPQFNRFGAHP
11332	25233	A	11430	77	405	TKRGDSSFCLYRIWIIDSVMKWNQSAA AAAAFFFFLRLGTLFLFRLKGKV GASVI *NFCLRGWGGSPPASPSKEVGMEGACHNS GLFFVFLERKRRFPLVGQEFKTTTRAN
11333	25234	A	11431	121	439	LPLPTSGPEDPLALSFKPTPFPSTLSGM IYTGHPSPEHTSHLMPAPPVNNNKACRF FKT*KKKKKKKKKKKKKKKKKKKKGGPL KKKKI FAPPGGEI FFFF FWGPKK
11334	25235	A	11432	109	283	LTPWNLDSRCETIKGNKPQEHNHLNLGGG GCSEPKSHHCTPAREKRQNSVSKK*INK IK
11335	25236	A	11433	296	1	FLKKPSKGFSKLPHLPQNLNLFPPK*K CPRAKKDIPPSF*KISSLFGE*GFTG SRPPSLNLENPPKRIFFFFFFLDRVSHCRPGWSAMASSCPRV
11336	25237	A	11434	385	418	QSETLSQKQKTK*E*SWLGAVAHACNPS TSGGRGGWIT*GWEFENSLTNMVVKCL
11337	25238	A	11435	3	405	LLHQGRMLMLQWGNGRTKTLLMRENVGKFPAEPSCSALGVWLQALACYPGLVRRQ*ANHWEKKKKKKKKKKKKKKKKKKKKSGGG
11338	25239	A	11436	221	3	KHEFQTIQMESMK*NTSIKICIYAS*IQ DCLRYQWQRPAAVAQAITEHFGRPRQAD HLRSGVSDQPGQHGGET
11339	25240	A	11437	288	366	KMFWSWA*WLMIPIPELWEAKAGGSL
11340	25241	A	11438	160	370	LWYHYFPVRDGLTILVTVQLKAIRRLLT LKSRSGAVAHTCNLNTLGGRRGGWIT*GERFETSLANMEKPHL
11341	25242	A	11439	230	404	MQHGQVGIYSQGGGWRPVDKKNSQLGTV AHTCNLITLGGRRGGWIT*GQEFTKSLTM MV
11342	25243	A	11440	302	54	LSGVWFLTPPPKGFFPTP*NGGAPGFF PPPPFKNPPPPEGKLGGPKKKNFPPPGG EKLVFLKGAPPFFFFFFFNNNNFL
11343	25244	A	11441	271	416	KRTLSTELQYMCLLIKSISIFK*KKKK KKKKKKKKKKKKKKKKKNPSPSLP
11344	25245	A	11442	254	392	SVTGMTIMTSSCCYKIQKCTKIQKLA RHGGTCL*SQLLRLRQENS
11345	25246	A	11443	390	150	LLKNQKTLGGPARNPPPLGGPNGGVPKA GNWGPPGPPGGTPFFFKNQKITPGGGGG

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						P*FPPLRGGGPGNPLYPGGQGCH
11346	25247	A	11444	122	1	PAPLFFFFFFETQSCSVA*AGVQWRNLG SLQPPPDDGTRL
11347	25248	A	11445	272	403	RPKVDKTTKMGMRNQSRKAENSKNQSASS PPKDHNSSPAME*SWM
11348	25249	A	11446	70	397	LCHCAPAWATERDPVLGEKKRMMMSYCH PPMRMVEKKIVGDIKC**GYGETGFLTH C*WECKMVQIL*NIV*QCLKNLNVHSPY ELAIVLLGIYPREMKTLYIFTKKTSM
11349	25250	A	11447	3	401	HASAHASAHASAYYRLCAYPKSSFLYPS SFLVVSVNFPLNILDTTIGPKATETLFI KHVMHDVISMQLKSKTTFNYFFLLSLNV FYFVLSCCKRRKRSQLGMVSHICNPSTL GGRGRWIT*GQEFTSLANMA
11350	25251	A	11448	333	1	KSGCIPPKGQVVLFFLQKTAIGSPKPV SPPRGKGQFFPQGLRGFY*FLPPPPGV P EIFFFF*DSSHSVTLPRLSPREYSGMNTA HCSLHPGSSNPASDHSIAGSTGTCHH
11351	25252	A	11449	104	402	VVCRPLLGGVSQQLGYMGVMDPFKEAVCL FSELKHCAVRTTALFRAVROGCLSFKNF LLPFFQLCPAHRGGVL*RQ*ALLSCGGL HPVRASRPLCLPTQA
11352	25253	A	11450	198	2	KYKFMAGLGGSCL*SHHFARPRQQDGLS PGV*NQPGQHGETPSLQKKVSWAWWHAS VEAEAGEQP
11353	25254	A	11451	171	3	TPPPRATSLFFFF*TESHSVSQECNGTI SAHCNLCLPGSSSDSPASASRVAGITGA
11354	25255	A	11452	177	461	PMTGGKYIISNSTCSKPNSLSPHLPLKTQ TKNMEHFGRLLRGDCLSPGV*DQPGQRG KTLLLQKISQALWDVTAAHWVVPGLPTR ERRRSLSFPTG
11355	25256	A	11453	247	3	EQECCGIESR*ILHLKGRCIWHTINYLK ITKIKN*VILKKMYKQKLPGAVAHAYNP SALGG*GGRIARAQELETRLGNIVR
11356	25257	A	11454	328	57	EVHSNICATLSTHQMKILTKGTRHQHIS *GFF*EGEVLTLSRKLECSGVIMAHCNL NLGGSSDPLALVSQVAETRGASYLLLAI CPKVNK
11357	25258	A	11455	70	435	ATRAKLHLKKKKERKKEFFPHWQGQPT PALVFPQPRTFHIFKVSIFSLKKNRQL PYTVQTQSLLPPLNSHWGQVA*AGVQWRN LRFSCLSLPSSWDY
11358	25259	A	11456	112	401	KCWDYRRERPAPCNPICIF*LTFFFFLGK KLNQSFFFFFFLKGSLVLPPLKGGGAF LFN*NLTLOGNNSPASPS*RAETLGLG PHAKLWFVFLKK
11359	25260	A	11457	198	3	EKTSVKQSGDSNKKAWLEMKTNKSLKR *GVVAHACNPSTLGGRRGGWIS*GREFET SWTNMEKP
11360	25261	A	11458	179	1	FFHMYNHIVCEYTITLSVNINSQGPGR AHAYNPSTSEDRWIP*AQEFKTSLANMV KPH
11361	25262	A	11459	210	5	RЛИHYFFKNNLPSGGGSTA*GQFEIIRL DNTVRPHFLKK*KISQVWWCMVVVSATQ EVEVGNGLSPGV
11362	25263	A	11460	139	2	RILALSKLFFFFKQESHFFLPMLECSG VISAHCNL*LLGSSDLS
11363	25264	A	11461	388	272	S*KKKRGGRFKGSMFLSPAGQGNPFFM

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						GPKSISLAVV*QRREGKNLGAPHITRL GAHPLFAGWHKTQGAEF
11364	25265	A	11462	2	387	CVWKSNNKKAPCVAALRFRWKDDMDEM APGKHWWGLTSKVQSGGLMGRYTGPLTK TENSILLKNPYFEAGHSGSRL*HQHLGR PRWEDYLRPGGQGCSEL*SSHCTFT*VT EGDPVSKKLKRTIFGG
11365	25266	A	11463	325	398	SLPTWAVCAPRPSG*GSGIPELKTMLAG VILEDYLDIKNFGAKVVGLSCTLATGST LFLGKVGVGPVHLSVMIAAYLGRVRRTTI GEPEENSKSQNEM
11366	25267	A	11464	174	2	YLEILFFFETGSRSITQAGVQWSHPGSL QTPPPCPNSPASA*VAAHASADAWADA W
11367	25268	A	11465	105	411	TDVELLLMDE*RKWFLELETTPGEDDVN IVKMTTKDFGYSINLVDKAVSEFKRIHS YFERGSAVGKVLSHSIVC*GEIFHERKS PLMQQISLLTFILFYFSE
11368	25269	A	11466	291	404	SQEGVKIKRQGTVAHTCDPSTLGG*GGR IT*GQEFKTS
11369	25270	A	11467	64	236	THASGLDL LTS**SCLGLPKCWDYRHEP PRPARFSSFYSGSLLNYLAKIIKRDAFC I
11370	25271	A	11468	278	416	NPQISCLKQHVWGAVAHICNPSTSGG*G GRIT*GQE LKTILVN MVK
11371	25272	A	11469	178	325	RPEVKDQGASC RDQPHRVGGLLPVCSDE RVPKQKKKKKKKKKKKKKKKKKKKKKKKK KKASSGGARF*KKKKKKKKKKKKKKKKKK
11372	25273	A	11470	264	60	DINHQSSWLSGRWTPLSWVSISQREDRR GFSASIYIYIYIYIYIYIYPIHIYIHT YT*SYHFQNQNT
11373	25274	A	11471	95	399	DFPHLLLFLPLSQFC TACCPVPENRCFM YFFLIFSA CLWEMNSRISHSNTARVEQC CKVKFILQMKSVLGQVQWLTPVIPALWE AEAS*LPEIRSRNQPGQ
11374	25275	A	11472	139	2	NHVSTEKLSLHTMAHTCNPSTAGGQGGQ IT*GQE FKTSLATMAKP
11375	25276	A	11473	179	3	RARWNPQVFC*GFLPVFPKILPIWPLRK GVPFPNFFFFLRVSLCHPHWSA VARS RL
11376	25277	A	11474	282	12	KYIRNE*IVLFVIYFCRNRI SWCCPGWS *TPELK RSSCLCLPSCWDYRHEPLCPAE MNKLDRLNKMDTTKWIQOKKKNHR TQRQ DNKII
11377	25278	A	11475	145	3	VCMQLRTDFQPQGAVA HACNPSTLRC*GG WIT*GREFKTGLNNMEQPC
11378	25279	A	11476	61	397	PQT PRLKQSYHVSLPSSWDY SWIYHERL VNPGRETDWATCYSGGN IQLQENKLNT P TDSTLWVSLCCPRLECSSAIPADCSLN L PG*SDPPTSTSHVAETTGACHYAQLI FG
11379	25280	A	11477	156	3	FIFLKSSQNSYI*KCWP GAVA HACNLDT LGG*GGWIT*GHRFKPTRRPRV
11380	25281	A	11478	224	383	CWVCLIHRAFLAPRPV LGCQ*QKKKKKK KNKKKKKKKKKKDSRG GG
11381	25282	A	11479	339	58	NFKNKLCFCASGYLDSKDSQHYI IFFIR WSLALLPRLRWEDCLNPGGGCSEPRSY HRTPAWVIE*DPVSKK*IK*NKIK*KQQ DWLRLHDKIF

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11382	25283	A	11480	244	407	SFGKKIGFLFGPKKFNGGSYGNYYKINRRFFFPILEGFSPHVYF*NLETRTTGGGLLETTKTTTFNLGRKLGSFLGPRSLTAAPTGTTIKLITGGFFFQFWGKVFPFRMYIFWKDEWKKG
11383	25284	A	11482	308	30	SPQKNPPTYSGFKKNLSASPGQKAKPRFFLKNQFLPGIMGGGRQFPPLLRRVRPPNCFNFFGGKRCN*QKLGPCPPGGPKETVSKKKKRERQQ
11384	25285	A	11483	226	407	NHWNKK*FWPKVAHTYNLSALGGQGGRT*T*GQEFTSPSNMRPHAS
11385	25286	A	11484	10	411	QPPIYFLSLRISLFWVFHINGIIQYVATCVWLVSCHNFSRFICVAACDQDFIVFLWLNNIPLCGYNIILCIHSICCPNWRTTGLFP LLAIKIKL*TFVKKKKKKKKKKKKKKKKKKKKKKKKR
11386	25287	A	11485	184	1	TDEELLPMDEQRKWLFLEKKPTSGEDAVNIFEMTRKDIECYVH*VDKAAAMYERIDSNFLSN
11387	25288	A	11486	435	222	AKNLNRHFSKKVI*MASRHIIKRCISISLTIRET*IKSIIIR*HVIPGQMTFIQKTGDMFGSVSPLKSHHLKL
11388	25289	A	11487	317	408	FRPGTVAHACNPSTLGGQGGWIT*GKEFKT
11389	25290	A	11488	340	469	GKGDTKCHLWLGTVVHACDPNTLGGQGRRIA*GQEFKTSLSNM
11390	25291	A	11489	38	389	KRPTSLKKSNFCSLQGFFFGLSQKPGKSNRSPGKKKNPFFSGGKAP*KGF*KIFLSPGLGGSPQKPHLLGGLGEKNYLTLKGCRDPK*CPCFPWAGECNPFSKKKKQKFPFFG
11391	25292	A	11490	235	2	FVLMWLMPKLHIPVTEFRRLFAFPEFL*FLFCFVLSYFVLLLETGSHYVTYAECSGAISVHCSLNLPGSSDPPTSVLV
11392	25293	A	11491	25	417	GTLCLRIGFINISHHCMLKENSLLLLFWEWKFYFAPQADGRGPNLG*WNPPSPG*RGSPGPTSRKRGNGGGPPGPVIFGFLRKNGVPPGGLKGPKSLAPGIGPPGPPKDRGLRGGPPAPGLLKKKNPKVW
11393	25294	A	11492	234	438	MVVIIAQQCDCTEHY*LKMAKMINFMLFIFYHTHTHTHTHTHTHTTRERGPSITYGKVSFKLTHL
11394	25295	A	11493	344	477	CFTMFIS*IKT*KFNISQLVAHTCNPSITLGQQGRIT*GQEFKT
11395	25296	A	11494	35	482	GIPGFHHVGQNGLDLLTS*SIHLGLPKCWHYRPGPPRPAISITPST*AYLLGNQKIGVTHFLAILALFFSGTKAMISPKYVCII FYLVEEHLCFYFLAINTATCVCVYKLFDTYMYQVESHA THEFISYYFFKILCSLSIRLYAVLL
11396	25297	A	11495	307	484	LSPSERHELKVWLWPGAVAHAYNQSTVGGRGRQIT*GPEF
11397	25298	A	11496	487	349	FLIKTEFHPIQEGFDFTL*FARLGLPKGWWDYKGEPLRLAFWHPF
11398	25299	A	11497	224	417	ASGASALKVELCSFSRYKIIYPRHKRRYARTDGKVF*FLSAKCEGITFFLSFFFFFLEVLFCSPG
11399	25300	A	11498	17	411	KRLVFGGRGRTRDFISQYV*AEYVSINL

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						LIFLTKKKKKKKKKKKKRGGALKKP WGGQNKTKGEKKKNFFFLRGGKKKPWGDF KKKNFFWGGENWGKPPPCKTPWGKKKI FKGKGKTPPYFCFLKKMG
11400	25301	A	11499	117	370	VSESAIDLAWSLGICFFFIEFPSDADVAGL ETAFFLFGGWTGSCSVVQPGV*WCNHSSL QPRPSGPRQSSCLSLPSSWDYKYMPPL
11401	25302	A	11500	244	1	EELFECYCSCSPTFSSDPLTPLLILTT* LLPLTIMASQRHLSSEPLSRKKLYLSIL ISLQISLIITFTATELIIIFYIFFET
11402	25303	A	11501	130	55	RFVCSTIKVLRLDSSDRSNPGRFLSTSN SSLKKKKKKGRPF*RDNSAIF
11403	25304	A	11502	186	421	SFRLKIAGIIGVHHCTWLVLILNLVLL K*ITFALKIMMFSKYSDIGQAQGLMPVI PALWEADAGGSLQPRSLSLGNK
11404	25305	A	11503	1	213	GELFLFLYIFA*WLFLLPKLKFKVIVCLC ELQFNERFIMVLCIIIILGVGGFFLFCF LL*FCFDFFFFFWRG
11405	25306	A	11504	82	6	AGVQWPRSWLRLP*LFFTQVLMIFFPPF YHQNNFFP*KGFFFLGGLSHFFPPPNKG FFFNYPQGFFFSPSLKKKFFFFFSSPIFL APPGIFL*GPPRFFFFFF*EGVSL CHLGWSAVAAILAPPAGFTPSSCLSLPS S
11406	25307	A	11505	245	440	WAPCIG*QLLKDPQVLFAGYKVPHPLEH KIIIRVQTTPDYPQEAFTNAITDLISE LSLEERFR
11407	25308	A	11506	256	370	GKLM*GHHVGQAGLKLITSSDPPALASR SAGITGVNRHAPPRLNVTLTYTKQTIIL YHNQYNQ
11408	25309	A	11507	1	149	GCMWPRTVLFAFQHKFVNFLKTLGDFGQ VQWLMRVI PALWEAEAGKLPEARRWRPP *PRTVLFAFQHKFVNFLKTLGDFGQVQW LMRVI PALWEAEAGKLPE
11409	25310	A	11508	316	420	YYIYEPG*VQWLTPVIPALWEAKAGGS LEVRSLR
11410	25311	A	11509	136	2	LDNRWLPGAVAHACNSRTLGDQSGWIT* GQEFTSLANMMKPHL
11411	25312	A	11510	167	420	PTPRSGNTALQPPHHHTHTHTHTHTHTHR HTHTHTHTHTHTRACI*KVRVRALFSPKKK PLFCLSVSQIYVGRCLLKRLLFIFLYRH
11412	25313	A	11511	124	415	IYISVANTIIILIFIAIHVLAIISFFFFKK EVFLPPRREGGGAF*VN*NLCFWG*GN FPA*PSLKKGITGALYTPGLFFFVFLKKT GFRHVQGAWLDFL
11413	25314	A	11512	121	1	PPVKFWAPFFFF*IGSPSVAQAGVQWN NLSSLSQSPPSCL
11414	25315	A	11513	245	13	VLFILSGFFGPINYPTSPPPQLPFPASG NHPSTLYLHEFNCFYFYFLFIYFF*DRV SLCRPGWSAVARSQQLVPSDS
11415	25316	A	11514	434	2	RPPPFPPVGSPPPFFFFFGEIWGQEER KGASSPPVVSRGILRGGGPFGGPGAPPT PLKKPPLFFFIAAPPFLGVFPRFFSFPTV FFLPFFVCPKKREALLGVPKGPRPFFFFR SFLFFFSGD*VSLCRPGWSAVARSQLT E SLAS
11416	25317	A	11515	247	390	QGLRIYSQDFFFLETKSRFVAQAGEQG GNLG*LEPPPS*SDFMASP

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11417	25318	A	11516	269	368	FFFERESCSVTRAGVQWHLRLSSL*PLPP AFRF
11418	25319	A	11517	256	404	NILKIFYLRI*KKKNQLGVVAHACNLRT LGGRGGWITRGQ*FKTSKEKMVK
11419	25320	A	11518	211	404	YLCFTCRCSVHSHLK*VFLHKCVI*MYRP HT*TGL*CMQVHTHTHTHAHTHTHTP LSQGGDCI
11420	25321	A	11519	41	232	ESVEPERRRRVPRAQITPLHCSLGDRARP CL*SQLLKRLRHENLLNPGGAGCREPRS HHCTAAWATEQDPV*KKKKSLNFKTVRA INLKMLGALISFHLFLWGIWF
11421	25322	A	11520	146	2	LIDQQGVNQLPRMECSGAITAHCCLELP GSSDPLTSAS*VAGRPPTRP
11422	25323	A	11521	297	437	TDHFWRNIRLSSCGDTFRDTWLGVVPHAY NPSTLGGARRIT*AQEFE
11423	25324	A	11522	244	460	NCATITTSRIFLQLQKKHCTKWLSLT SWQLSIS**ICFVLFFETNLAVSLRLE CSGAILAHCNLCLLSS
11424	25325	A	11523	222	1	ESKLDIFRCQLAPRNSSCFVLFCFVFP LEIGSCSVAQAGAQWCNHGSLQPPPPIA SAS*VAGTTNVRHYVQLF
11425	25326	A	11524	308	424	ITFLTMFKIYLQFDPAIPLLGIYPKDY* SCYKDTCRM
11426	25327	A	11525	98	2	NIGGRPGAVAHAYNPSTLGGRRGGQIT*G QEFE
11427	25328	A	11526	113	399	LDRFLTLLPRIRREDCLSPGGQGCSEP* SHRCVPAWATE*DLLSKKKKGVLEKPF LPPPSVGKPPFSPPERLFFFILRPPLGG VFPPPSKKIIS
11428	25329	A	11527	280	3	PKYCQI*VLOCIAQLFKLSIYNTYTHTH THSLSLSLSLPPPCKVNWKWLMSSEFTLTF KMYTFGPGRVTHTCNPSTLGG*GGWIT* GQEFEETNL
11429	25330	A	11528	284	2	FWGPQKKNFSFFFFPLKIGSFKRAPPFF FFFFETKCSVTQAGVRWCDLGSLQPLA WATERD*LNK*IKGMSKKLHT*VCMFRT RGRTRGRTRG
11430	25331	A	11529	134	2	DTLIPRLECNGTITAHCSKLPGSGDPP ASAS*IAGTTGMCASHA
11431	25332	A	11530	104	1	GRGFFFFFF*EVESCSVQAQGVQWL NLGSIQ
11432	25333	A	11531	157	373	CVFYTYSTSOLRCYIFIGNTRSVFRCHE IYT*KNRFWASTVAHTCNFSTLGSRGKW II*G*EFMTSLANVVR
11433	25334	A	11532	237	389	ICKCSKTGF*DFQEFEETSLGNIVRPCF YRKIKASQV*WHAPIVLATWEAE
11434	25335	A	11533	259	122	HISPSVQRHFFLFYF*TKPHLVAQAGVQ WCNLSSLQSPPPGFKRF
11435	25336	A	11534	164	1	SSVVSQALILFLKKTCFWPGAVAHACN PCTLGGRRGERIT*GQKFETSLASINL
11436	25337	A	11535	106	310	GGDKGTWWDTLHFFDGQKRLDHNKDHWM TIHAELPHELSA*CYAFKKECISGIGSI *AEKEYKIQFDG
11437	25338	A	11536	167	378	ASFFGTTITYKTLVYVYMFKEKFIYIH MYTF*RQGLVLSKLECSNVIIIGHCNLKH LGSSNLPTSAASRVA
11438	25339	A	11537	101	396	VNNLKQRIGLSKRGEEKLVLISGFGGG FPGAGWIKKGKPPPGFPQGLGP*KRGPP

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						GKKGNFKMGFNPKTLVFKNQNFGPGGA KPGTPGVGRGPLGDL
11439	25340	A	11538	18	361	QIGPRLY*DQNGETPSLLKIQKKKIPGF GGGPLKSQLLGGGLGWENH*NPGGGGC RD PK*PQGLPPWGTNQNQFVKKKKEGGREKGK EGRKEGGGEKKKTLPKGIGALNLGGLLT SP
11440	25341	A	11539	134	365	PGFQNKKTGGGGPFRPKTKTNFKVF*KY LKICCFGFWPKRPPPPGFFILETRSLFFF IFFLFFF*ETKRSRSTVRLECSGVILAHC NPRLVGSSSHYP
11441	25342	A	11540	2	318	TTERFIYRITFGPKETEVNDLPGAPSEP VAALRLEARSFILKL*SFSLVFDFFF LP F*KTGSCLSPRLECRGEIIITVHCSRELP S*SHPPTSASQSSGSGGFH LG
11442	25343	A	11541	294	409	GTISFFRTCRIGMVVAHTWNPNSTLGGQGG *III*GQEFT
11443	25344	A	11542	1	123	GKQRQEPA LS SYD HATVLLTS*SAHLGLP KCWDYRSDPPCL A
11444	25345	A	11543	69	350	VGAKHWHIHM DTKIETADPGNYYSGERGK RPRAEKL PV CYA LYLG NGI ICNPKPC CWKGHDFIYIYVC GH IYI HIYI CT THI YI YFF*DGGLLC
11445	25346	A	11544	103	340	LFCAFFLSPSKLDFYHLSFYV*TLFLKD LISLAFFFLPWEAGCSV TQAGVQGPNS THCNLCLPGSNPSTSASQAAGT
11446	25347	A	11545	256	354	PYPFGKPKRGDHWGLGV*NQPGQQGETP SLLKI
11447	25348	A	11546	196	335	EIVARLKRSPVGRAQWLMPVI PALWKAK ESGSPEVRSS*VKKITCRPGTVAHACNP STLEGQGKWIT*GQE FKTS LANMVK
11448	25349	A	11547	202	377	TIHTKGVMVG NFILVVFYQNF FKT FF*D KILGWARWPMLP I PA FW ESE EM GGL LEPK SL
11449	25350	A	11548	396	26	PPIKKEKRSPNGAFYPPFCWNF*KKKN LSLAKRFPRDSVFFFVSW*GSYLPITTF LQLRWYVLTSHIAVSFKLCEPHKNFTL QHSIPYLYIIIEVYSYFIRNNTIYKIN MDFSIVGFVFL
11450	25351	A	11549	232	371	REVPFENIKIGQVQWLTLIIPALWEVKA GGSLEARSL*KYQNWP GAVAHAYNPSTL GGQGGRIA*GQKFEIS PANMAKP
11451	25352	A	11550	174	381	NRDEGFYADRAEVQRLLTGTILEHCGL QRPLG*RSSCFTLPCGWDYRH*SPSHVA GTTGISHHTRLIKKAFFSQTVSSC
11452	25353	A	11551	262	359	DYSNLGLVWWLTTVIPALWEAKAGRSSE VRSS*PALWEAKAGRSSEVRSS
11453	25354	A	11552	70	380	LHKCSFIYIH CNNP ITYGLI SLYPKQLF SYENFKDFCNKI*P*IPNFELKTSTP*L EKL*NWAMARHGGSRL*SQHFGRP RRRAD HMRSGVPGQPGQRGESPST
11454	25355	A	11553	319	56	TFFLGPPGFF*KIFFSVG PPLIFFLPKK FIGEQKKNAPGK NFFF GFLFSLFFF LL TLSSALECSGAMS AHDNLCLPGSSNSPA SAF
11455	25356	A	11554	230	399	MMGEIIINQANIISVCQIIRRRLRHESHLI PGGRGYSELRSYHCTSTWVTE*DSCLKK
11456	25357	A	11555	376	396	F*IFWRDGVS PCCPGWSQIILRLOQSTCL

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						GLPKCWDYRPPHPATAASCPTYFYHYYLL KIWRYSFDLSCLWNLVVWGLAFG
11457	25358	A	11556	176	384	KAWPNVRNNYR*NNFFQCCLNFRKRLK CFRCGADKFGKTGFSCQLQYALKPTNWGR EQWLTVNPTNFGK
11458	25359	A	11557	295	391	PYKLЛИTHHTHHTHSRTHTI*HTTLS LYTF
11459	25360	A	11558	1210	1753	NTWCMERLAVAFGSFNRNSPLRGWALWL TPIILALWEAAEAGGPLEPQEFEETCLGNM VKHCLYKNLKVNNSGV*DLPQGHGETLSL QKFKKCVRRGGTCL*SQRLRRLSWEDCL SQGGQGCSEP*SHQCVPAPWTELDPDSK KTKTKKFFGGLPSPFLFVCFLTHIYVNKE YAFVLAEEASGKTTSKLTMTSRNGLGK TKKKFFGL
11460	25361	A	11559	172	3	KQKFFFPPPSHQIKIFGGGAPEMPFFFF FFEKESRFVA*AGVQWRNLSSLHPPPHP
11461	25362	A	11560	143	1	GQAQWFMPVIPVLWEAKAG*SLEARSSR PVCATATPPQLIPK*YEGL
11462	25363	A	11561	84	2	KPLDTLGGQGGCIT*GQEFTESLANMV
11463	25364	A	11562	12	387	QGILLPCFSMSSEERGRIYSNTFSFFFF FGKGQQINPQGGGQATEPRLREPSPSGL TLQGPNGGPPPPPGQNFFFKKKGGYPG GAGGVLPNGPKGNTPPGPPKARKKRGGP PGPGQKFL*NPKG
11464	25365	A	11563	230	375	RAKGKLLSESLSLTIQSFKKPSVHTCNPS TLGG*GRWIT*GLEFTTSIA
11465	25366	A	11564	287	55	PPDGRVQWLTPVPGLWEAKEGGSLKSR SS*SQINPVGSPVPSLRVLR
11466	25367	A	11565	115	411	FFFFFFFLGENSFFSFRGGPRGGHIFW NFPPPG*GVFP PPPPPP GGGNKGGA PPPG FFFFFP*KTGFPPLGPGGPPPPLFGPPP FPPPCKGYNFRRDPPP
11467	25368	A	11566	139	356	CLLIGWYNTGCITQGSTRKIGTTFFLRQ SSVAQAGVKCSGMILCYRNLRLPGSSN LPDSAS*VAGTTATYP
11468	25369	A	11567	101	410	FLFFFFFFLKKIFFFFPPRGGGGGN*K KQTPLGKGKNFPPPPP KRGGGT PPPP PLFLVF*GEGGFPGGAGGGKKTPKGNP PPPPPKGGEMGRGPPPRGG
11469	25370	A	11568	417	56	EDCLRTGVRDLLPNPHPNLQIAGRDGAR L*SQLQEHHLSPGFRGYSEL*SCHCSPA WATE*AYRKQNKTQNYRSSALLHLYTP MATAWIKIAFLRAGDIFLSVLSFLPNSY PLFSHPSQ
11470	25371	A	11569	301	443	EDTFVCFEVESCSVAQATDSPASAS*I AGIIGVCHHARLIFVFVLFV
11471	25372	A	11570	44	408	RGRGHGPHSPWRRRRRLRVVEGRKATES KRAYKYPLPALLCSHQWKPNLDEWNSGGGGRO KIPTGL**LK*PSFIFIFIYLFWKQGLS LAPMLECRGAVIAH*HLRLPRSSLHAS ASQVAVTTG
11472	25373	A	11571	201	1	AERPVTGPPVYAEPLGQGQG*KNMFKN MQHPRWADHLRSGVQDQPGQYGETPVST KNTKITQAQCI
11473	25374	A	11572	343	1	FGLFAFTLEYKLYESINHFAHCCVCRF SSGTLHVVVCNRHPNKLDEWNSGGGGRO DLTLPRLGCGSVIMAHCNLVLLGLSNP

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						VSAS*VAGTTGAHSHAWIDKLFFVKTGP LY
11474	25375	A	11573	209	3	VGPPPKSLPGGFPPFFCPKCFPRLKKKK KKPGVLAVYTCNLNTSGVRGKKIT*AQEF KKSPSNSIVKWPWY
11475	25376	A	11574	312	430	QRYARPGPVVHCYNSSTVGGRSRGIV*A QEFATSLCNMT
11476	25377	A	11575	125	3	NSLGPVVHACNPRLGG*GGRITSAQEF ETSLGKIRRPLY
11477	25378	A	11576	190	362	CVNNYID*EKKKKKKKREREKKKKKKKK KKKKK*GGGAPKKKKFTPGGGKNFFF L
11478	25379	A	11577	231	340	KRITRVNQDGLDLLTS*SAPLGLPECWD YTMKPCLY
11479	25380	A	11578	60	3	RMQSV*IFTPMMSLQAYLIYSSSVAAGA QSGIEEKYQFAWDRWNCPERALQ
11480	25381	A	11579	285	406	KKGNWPGAMAHTCNPSTLRGRGGWIA*G QEFETNVGDMAK
11481	25382	A	11580	121	1	NLNCGPVVAHASNPNTIGG*CRPIV*GQ EFYTRIANTVKP
11482	25383	A	11581	199	384	KKTPPGGIFFCPKPEAGPAPPL*TPFC*T PLFFSPAPFKPKRALFKLPKRGFFQI PFFFF*DGVSLCHPGWSTVARSCPVR
11483	25384	A	11582	677	934	YGSRHICICFLQAISEILFLKNPARHGS QVQDQPGOOSKTLRLRKKSK*ARHNGSC LSSQNFGRLRQEGLHSPLGG*GCSEL*PR HC
11484	25385	A	11583	104	2	KKIGGGPPLFFFETESCSVARLE*SGA ISAHCN
11485	25386	A	11584	349	9	GGRSLGPRKTRVQWGIPEFPPHLHGGKA KPCFPKKKKKKVKGLNKHYSKEDIQMVN RYMKKCSLSPRERKIKTIMRYHFPSIR MAIIRKIKDPKDQ*GCIEKGGSVVRPMY L
11486	25387	A	11585	163	1	TAVRIKHNSYTLPCLRHRSYLINVTCW PGPVAHACNPSTLGGGRWIT*GQEF
11487	25388	A	11586	192	41	SKSKYHIYGDNALQKSTVYKWITHFKKG *DDVKDKAHSTRLSMSICEEKE
11488	25389	A	11587	30	374	GWSPEDLFPGLPPLPAKGFSGEGG*PFL PFQQKRGGGGGSSPPFPVLKVRVPENRL YPGGGGFR*PKQGPCPSAWGAEPDSL SKKKGFGQKKKKKKVLKEKT
11489	25390	A	11588	66	245	SLCCFFVVFF*TESCSVTVQGVG*WYNL GSLQPPPDKKKNIKKQKKKINWGRGFK RRL
11490	25391	A	11589	243	402	FLHLKKKKKKKKKKKKKKKKKKKKKKNN*KDAG
11491	25392	A	11590	205	3	IRLLGIKKNPTPAHCQ*K*KTGEPLW*V VW*FFRRLHTELSYDPAIPLLCINSTEV WLAPGIPPRFR
11492	25393	A	11591	404	152	MGFHHVSDQDGLDLLTS*STLLSLPKCWD *CWDYTREPLCPGHFAISFNKVVLNTTT VVLYFYLIILHCYCPYKLLFLFFFYIY
11493	25394	A	11592	311	386	TVYPPLAGNLAHAGA*AGIVGTALSILIT RAELGQPGALLGDDQIYNVIVTAHAFVI IFFIAPIIIIGGFGN*LVP LIIGAPDIA FPRINNISF*LLPPSFLLLASSIVEAG AGTG*TVYPPLAGNLAHAGASVDLTIFF LH

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11494	25395	A	11593	39	397	EGCPLFFFVFFFFFFGGKKIFFFFPPRG GGGAPHKIPGP PPPPGGNFFFPPPPPRLRG GKRGP PPPPGFFF*KKGVSLFPRGG VFFFSTWRRGGGGFP PPPPKKKIFLKGP PPFYKKK
11495	25396	A	11594	243	46	GILSCCFHDSSLNSL*CD*VWISLCLS YLVISELLGQCGLIFFIKRESFWLLLK MYLQPLSFLS
11496	25397	A	11595	327	2	PRAILRIQFLWPMR PYVMWSQPCSLCF CHTAKTVPTSRPLLGFSSLPGTIAHISM WLVL SYGLGFSSKVTLWPGVVVAHVCNPS TLGG*GGWIT*GWEFKTSLANMVK
11497	25398	A	11596	292	384	LGTVAHTCPNSTLGGQDGWIT* IQEFET SLR
11498	25399	A	11598	125	2	PFQGQRSGGTRGPGAVAHTYNPSTLEG* GGRIT*GQEFEETS
11499	25400	A	11599	302	408	TGGWLGVVAHACNP SILGGRGRQIT*GQ ELETRLA
11500	25401	A	11600	409	131	GRSGGVPKSGVLKPPGPGGTPFFFKKP KITRGGGQPPLFPLLQRVRPENCLSLGS GGCH*TKLPPCPSTWGAQ*KLVSKKKC EGGGRIYS
11501	25402	A	11601	196	330	HHCMLAWVTGRPYLNIIYICIIYADIYIHI YICIIYIYTHTRVYIYLAI*IYIYVYMR IYIYIYVYIYVYIYTHGYIYIY
11502	25403	A	11602	41	252	TPGRARGQRLGHSSSTGLDLITS*SACLS LPKCWDYRREPPRPAEDIKFMF*AILSE TILVRGVRSRATPS
11503	25404	A	11603	271	440	KKKKRGGRFKE SKFTSAGLQGNIFFIGP PKLI PRAAV*QRGDWKNLGVTLQNLRC H
11504	25405	A	11604	429	2	FSSFFAEKGCHCVSQAGFKLLSSRDLPT SAPHLGIRLLGRLRQEDPPSPGV*GCSE LQSRLCTPAWITKRD PVS*KFKKQKTKT HTH*RKPTKGQDHQYHCLPPPHVMPILKV FRGSNVHGAVRTRGSRGSIPELSHAVPH AP
11505	25406	A	11605	113	2	TEATHLVCTYKN*KL GWANWIMPVIPAL WEAEVGRL
11506	25407	A	11606	301	3	WVMVCSVKNIALGHACGKFHYEGRGKPA EHP SWL LVLESI QKKLFLSYFLFTFL QPPSPRLT*PVFRFFFFRDRIMLCCPGW SAVVERVGRAGNSE
11507	25408	A	11607	117	431	SCDFCLSFSLSLFFFFFFRKGIFFLGPRG ENKGGNKIKWTLGPGGKGNSRSPPKGG GKRGGPPPGANLDF*KKTGFPOQGGRGGE KPPPPGGRAGGAPQRGGKPG
11508	25409	A	11608	277	88	RRTTSSWLARNCI QGPAGYHTGS*TPDL KGSACLSFPKCWDYRWRLDL
11509	25410	A	11609	200	27	VRLKPGDSRDPDMQWYYI*ENRP ARCGG SLL*S*HFGRKRKA DHRL LGVQDTRSSA R
11510	25411	A	11610	17	414	TVWLVMDPENEWIVSGWGGKEEPGRYF MCEARSSSMDRVFFFF*KKTLFFPPGGG GGAKI WVN GIPPPQGSPLSVAYPLGVWE KKGPP IHPHKKRVPPV*PGGVLFSEP GM PPP GPPKGVGK RSSPPSPV L
11511	25412	A	11611	296	428	RIVENWRGTVVAHACNPSTLGGQGGWIT* GQSLKTSTGTVAKP

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11512	25413	A	11612	20	362	NFVRGVARGSRGGATRCCEWVGLRPVGMA YGRSPSWLL*VKPSAASHRPPPLPRAADT PGTAPAPTPTPAPAAAPALTPSSGPGSA ALTLEELQEAIRRAQRWGLTMLPRLASN
11513	25414	A	11613	158	2	LMLSRTPLQQL*YTLLELELPRLIAPDL LSNGSSLKDLWKTHSNRASKETK
11514	25415	A	11614	3	410	RSEVYGLVLTTWYQVNRPWTHKAARFT RVRSWARPRSKISESCYWLPOAHRTKS* PLVRTLGLCSSLGFHPLLFSLLLATDLV PLPSFALLLLELLFFLPGMPKLA*PST KRSFSFYFFRDRVLLCCPGWSQTP
11515	25416	A	11615	189	397	YKVLFLVKEKNNGFFFLLFFETKPCCVAPTG VQGPNGF*LQAPPPGLPLFSALAPEVG ITNGTPPPPRFFF
11516	25417	A	11616	158	1	KGKPTPKTFFCQKQIFFLVFFF*TESHS VARAGVQWRDLDLSLQAPPPGFTP
11517	25418	A	11617	319	425	KVWLYSQAV*KVWLYSQAVAHTYNPNTL GGQGWRIA*AYEFKTS
11518	25419	A	11618	94	2	CLTISWLGTVAHVCPNSTLGG*GGHITR SR
11519	25420	A	11619	381	9	FFPLPLPLPTVSLSFPRSPSDAEPKLDCT AATSAHCNLP*FSCSLSPSACNCRRAP PRITASASRGAGIADGVSFTQCSMVPRL ECGSVISAHYNLHPATSLGLPKCRDCS LCPEIVDPRI
11520	25421	A	11620	144	431	IVNIVVGKGEKGRKIPE*LIRCNGWN*S WDRWVAEDHVLREPSENRRLLARVCLTP VSQHFGRRRRRLDHEVRSLRPACATWRNS VSTYNTKSGWAC
11521	25422	A	11621	174	449	VFSLPLLGGAQLGYLEVRDPLEEAVCP FSDLKPHAGRRTTLFKAIROGHLSLQRF LLPVWLCPAPRGGVYRGQASLS*GGL HPVRASRP
11522	25423	A	11622	316	412	GGPSAVAHACNPSALGGRRGRIS*GQEF KTS
11523	25424	A	11623	183	2	PKQVYLNRNGLLSHSKCNKIHINRLKRE KIQPGVVAHAYNANTLGGQGRWIT*GQE FENE
11524	25425	A	11624	355	168	DLLIVCYDPNAINL*SLLRRRLKWECL SPGG*GYSEPRSCCHCSPAFAAEPDPVSK KDRNVEFIYCC
11525	25426	A	11625	154	3	TADVLFLGQAGRGNFVVMKKNCRPGTV AHCNPSTLGGRRG*ITRGLEFK
11526	25427	A	11626	412	3	IFFPPPKDKRTRGGQKKNNIPPAAPRN F LGRGGNFPPPQKPFPPLF*IFPRPP*C KGSIPLFLPLCFQKKKTPSFFFLPNGS PPICEKIFLFPKKGFLKFKKPRFLKKKG PFFFFFFGNAVLLCQPGWSAVAQSQ
11527	25428	A	11627	290	423	VFEYFFFKKFFKKNSWPGVVAHTYNPSSL GGQGGWIT*SQLRPP
11528	25429	A	11628	213	3	LSGIYSGNRRRLVRYSKSVSIIHHINRLK KKNIHIIISIDGEKPLEQIQNSFMT*KRN KLKWEDHLRPADA
11529	25430	A	11629	152	2	FQKNRDLEPSKAGWPGMVAHCNPSTLG ARGGQIT*GQEETSMVNMVKP
11530	25431	A	11630	422	189	PLSGFCPSTWGAKQRALSKKKRSEAGH SGSC*SQYLGRLKQKDHPSPGGRGFSE

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11531	25432	A	11631	239	424	LLNCTPAWVAKQDPVPKKRLK KEDNNRVRVFIGPLGGGLNELAHDKAFTQ NHHWLGVGAGAHACNPSTLGGQGRWTT*GQ EFTSL
11532	25433	A	11632	343	401	AREREHKSAACQ*GMERSVIKHCHVATE *EREQKRERQQERASEKERQQESERDSK RERARESERERESTRAQLVRKIVNQIS
11533	25434	A	11633	125	371	FQGCAKICLNTNTLLPYAHGYLIWRHDGK GCHEKMTAKIIHSCKLSPDAL*SQLGVP L*THTHTHTHTHTHTHTFSEKKGLVP
11534	25435	A	11634	235	433	AALTTSFGPPFSFCSYLINTLGNKNFPNHE ISTT*FTLQRLL*KIIFWPGMVAHACNPS TFFGQGRWIT
11535	25436	A	11635	93	385	FTLKSERRKHHSVPOQKKQNKTLLSPDC KLENKRGWARWLTPVIPAL*EAKAGES PEGNGEREETEPFGSIIILGFFFCTQIA HLHRSDYEPNEDS
11536	25437	A	11636	190	398	NTKKSQKAFFKTQGKPPPPLDPKKKASKK TKFLPKKISTRKFRTGPWRGTNFSLKK AKKNLGKTRKKIFP*RPPFPSISSLFWP FFFFLFFF*KDKVPLCHRGWSAVVQSQLT ATSISQMY
11537	25438	A	11637	190	380	TPKKWPKAFFKTKGKPSFHPRKKALRK TKFLPKQKFP*NPLSPLIPALFWPFFFF FFF*KDKVPLCHRGWSAVVQSQLTATSI SQMY
11538	25439	A	11638	261	91	EKTLWAGHGGTCL*SQLLGRRLRWEHNLN LGGRG*RSRHCTPAWTERDSVSNK*IN K
11539	25440	A	11639	1	334	FRANRTVKDAHSTHGTPQYLVEKTIIRT RIYESKYKWECECFGTAELVVVDKAMELR FVGGVYGGNIKPTPFLCLTLKMLQIQPE KDIIVEFIKNEDFK*VQCSLANIRGMY
11540	25441	A	11640	193	457	DGILLCGPGWSAVAPSQLCSCGTISAYCN LCLPGSSESPVSAP*YLGLQACAHAPLM FVFLVYTGTCMPLSAHHSRAANSSHFS YPLL
11541	25442	A	11641	257	373	NTISCFRSLRPVAHTCNPSTLGG*DQQT T*AQEFECLG
11542	25443	A	11642	211	367	DTTSHPFEWL*FKKSRSK*RVLDRIWGN* MLVHCWWEHKMVQLL*KTVWWLFK
11543	25444	A	11643	112	367	LQIKTIRYHHILTRMAKIQNTDTNKCYQ ECGATGTLIHCHWWEFKIIIPVIPALWEAE VGGILLEVRSSRPAWPTRENPIFTKIIKN Y*KYKNTPYIIR*LQIKTIRYHHILTRM AKIQNTDTNKCYQECGATGTLIHCWWEF KIIIPVIPALWEAEVGGILLEVRSSRPAWP TRENPIFTKIIKNY
11544	25445	A	11644	310	335	YHLIAGSLGDIERLSML*IGKAVCHNKY **GCGEPPGFLLHCWWEKMVQSL*KIVC QILQT
11545	25446	A	11645	143	455	KRKGPSLWLLGKSMGGIRFF*KKVFFSG FKSLWFFFPLWKPLERLN*IKISFYPP AKKKGGQORKAQFFFFFFFFFFPSFSLAGCSC SISAHCNLCLLGLSDSPTS
11546	25447	A	11646	182	458	SRGGIRFF*KRVFFSVIKSIWFFFPLL KPLGRVN*IKISFNPPAKRGWERKAQF FFFFLPRSFSLAGCGSISAHCNLCLLG

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						LSDSPTS
11547	25448	A	11647	319	3	RSTKYSPRGWEPBMWFLFLHVFSLPFRS ILGPPPLLGTPLRGSPPPPFEGKGFIY GLTFFFFP*EPPCEIFFFFFLDRVLLYCP GWSAVVQSAHCSLELKDKVCI
11548	25449	A	11648	165	2	DQSGRPKRKILCAHTHTHAAHHHTSLGQT* QDPV*THTHTHTHTHTPLYAAAQRIN
11549	25450	A	11649	290	3	SKQNTTHWATLKSIIYPSQFWRLGSPSS RWQLDGFLVRALFLVCRQPPSLRILTW EKTEERKREREK*DREERNEIERNERE RERERETQRMY
11550	25451	A	11650	220	2	TPTLPKGTLGLTALDRIPGRDPGPRRAGR PF*AGVAAENCPDPDAEGGSTRPLGAPGR GSAPP*RHPGPAGGRR
11551	25452	A	11651	29	387	FLIFDVTVTVIDLACHEPHSYKMAHLINV VCVLTAPPTSYFPISFLGPPYSLRHNDI EIRPINNPTRTSQCSSERKSHTSLTLNQ KLEMTTLSKDGMSKAKTG*EPGL*C*TV SQAVNAK
11552	25453	A	11652	267	2	KFFFVFVSTSKLNFYPGTPFPLFLFSFF FFFFFFFMREGFAVTWVPGAVAPGAVALA HCSLELVGSGKPPISAS*GAGTTGMHYH TRMY
11553	25454	A	11653	50	411	EAVAGGMEKSMMNLPKGPDTLCKFDKDEF MNEDFDVDHFVSDCRNRGQLEELRDNPQ LYKKLLKTAMVELINKDYADFVNLSSTD LGMEQALNQLSVPL*QLREEVLSL*SFV IERISPSS
11554	25455	A	11654	303	403	VRNMVEWLGVAAHACNPSTLGGQGEQIT *GQEF
11555	25456	A	11655	356	653	SVSPCPFPGPASTLSFLVADFRRRGVDV SQVAWQSKGDTPSSCCIINNSNGNRTIV LHDT*GPRASPACYNPPISWLNQFPHSPP WASQLPPSVASYQK
11556	25457	A	11656	442	2	GRPILMRPAVL*SEPRTPACVDIQQQIM TIIDEVVVKACAKVQTLSAPINSASRMQS IRHVVYILKDSSARPAGKGAIIGFIKVG YKKLFVLDDREAHNEVEPLCILDFYIHE SVQRHGHGRELFQYMLQKERVEPHQLAI DRPLSV
11557	25458	A	11657	109	474	DINMCGRVVLLVAERM*KRKRDKYNYEET E*VL*KKVRHSQQLQKENVAQNAPVVQNA AYIDQPSPAHVQQQLSKLPSRPGDQGV EPONLRTLQGRSVIRSATNTTLPHMLMS QRVIAPNPAQLQGQRGPPKHGICRTTTP NMNPANV
11558	25459	A	11658	342	3	ENQLKNGEHSKSQSASSPPNDHNTSLAR A*KWAGAEAEIALLTEAGFGRWVIMNFA ELKEHVVTCQCKEAKVHDKITQELIAGFE RNITYLMLKITTREPHEIAITSINSRMA
11559	25460	A	11659	204	17	STCTPLPTA*SQRSPHPPPTPTPPAPWR SSNGPLSRGSSSRNSTSSWSIALATGPW THRSEL
11560	25461	A	11660	505	514	GS*GNHFNPDGASHGGPQDSRTGPRGP CLPSPWGAQILRDWYPQEEMGTLGKQ
11561	25462	A	11661	80	374	FLFDIYNRCYLIFINII*YLSSNFD*IF IIIYLVAIYRLLCLGLFRAPROCKHPRP QFSFNKIGTKR*AWPGAMAHTCNPNTLG